





CATALOGUE

OF OVER 1,400 SPECIES AND VARIETIES OF

Ferns & Selaginellas

CULTIVATED BY

W. & J. BIRKENHEAD,

F. R. H. S.,

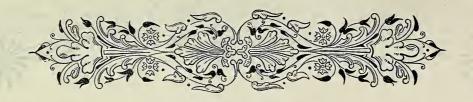
Fern Nurseries, Sale,

Near MANCHESTER.

17 and 19, Washway Road, Sale; and Park Road Mursery, Ashton-on-Mersey, near Manchester.

Our Original Nursery is five minutes' walk and our Park Road Nursery eight minutes' walk from Sale Station, on the Manchester. South Junction and Altrincham Railway, five miles from Manchester.





ADDRESS.

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AND BRITISH FERNS AND SELAGINELLAS, we give a cordial invitation to all lovers of Ferns to visit our Nurseries and personally inspect our very extensive Collection, which comprises many new, rare, and beautiful, as well as the more common varieties, of this most interesting class of plants, and is, probably, the largest trade collection of Ferns in the World. Having so large a stock, we are in a position to supply either large or small numbers on the best possible terms; and when a visit to our Nurseries is not practicable, purchasers, upon favouring us with their orders, may rely upon being supplied with good healthy plants, just as if present to select them.

We annually import thousands of Ferns collected in their native habitats, and are constantly adding new and rare varieties to our Collection; if anyone desiring varieties not mentioned in this Catalogue will send their names to us, we shall have pleasure in supplying them if in stock, or procuring them if possible.

We are always pleased to give advice respecting the cultivation of Ferns, but as we receive so many communications on various matters connected therewith, we are obliged to request that questions bearing upon this subject be written on a sheet of paper separate from the letter, with room between each question for our reply. This will save our time, and make the answer intelligible.

Purchasers unacquainted with Ferns, and wishing to have Collections for Stoves, Greenhouses, or Hardy Ferneries, Wardian Cases, &c., should leave the selection to us, and may then rely upon being supplied with varieties suitable for the different places in which they are required to grow. In order that we may select those which are most suitable, we must request our customers to give us an idea of the WINTER temperature in which they will be required to live. A WARM GREENHOUSE is usually understood to be one in which artificial heat is used almost the year round; a COOL GREENHOUSE, one in which

artificial heat is used only in winter, and from which the frost is excluded; a COLD GREENHOUSE, one in which there is no artificial heat, into which the frost is liable to penetrate, and for which the hardier species and varieties must be chosen.

We deem it unnecessary to insert testimonials received by us from those with whom we have done business, but simply say that all orders with which we are favoured shall receive our careful attention as hitherto, our determination being to retain the high reputation we now have for supplying clean, healthy plants; also for the excellence of our packing, by which we secure the safe transit of plants on the longest journeys.

We now do a large foreign trade, sending many cases of Ferns not only to different parts of Europe, but to America, Africa, India, Australia, New Zealand, &c. Our special attention is given to the execution of orders received from customers abroad, to insure the safe arrival of the greatest possible number of plants in each consignment. The many expressions of satisfaction and pleasure we are constantly receiving clearly testify that our care has not been in vain.

We take this opportunity of again thanking all our customers for past favours, which have been highly esteemed. At the same time we solicit further orders, which will be carefully executed as in the past. We also request our customers to kindly recommend our Nurseries to their friends with whom we have not yet had the pleasure of doing business, and who require Ferns.

We shall be pleased to correspond with anyone desirous of collecting and supplying the Ferns growing in the country in which they are residing.

Address for telegrams, "BIRKENHEADS, NURSERYMEN, SALE."

Please see other notes on pages 100 and 101.



AT THE

GREAT FERN CONFERENCE,

Held in London, July 22nd and 23rd, 1890, we received the HIGHEST AWARD obtainable in this country, viz., the

+ GOLD MEDAL +

OF THE

ROYAL HORTICULTURAL SOCIETY,

For our immense and magnificent Collection of Ferns there Exhibited.

This Medal is Awarded only on rare occasions, and as an Exceptional Mark of Merit.

AT THE

ROYAL HORTICULTURAL SOCIETY'S SHOWS,

Held annually in the TEMPLE GARDENS, LONDON, 1889 to 1896, we always received the HIGHEST AWARDS, viz.,

SIX SILVER CUPS,

AND

TWO SILVER GILT MEDALS,

For our unrivalled Collections of Ferns Exhibited on those occasions.

Thus EIGHT YEARS IN SUCCESSION we received this honour at Shows OPEN TO THE WORLD.

In addition to the above, we have been awarded

10 GOLD OVER 30 SILVER MEDALS, A LARGE SILVER CUP AT MANCHESTER,

AND MANY

First-class Certificates & Certificates of Merit,

At the Principal Shows held in

LONDON, EDINBURGH, MANCHESTER, SHREWSBURY, WOLVERHAMPTON, Hanley, Leicester, and other parts of the Kingdom.

The above FACTS serve to confirm the claim that we have

THE FINEST TRADE COLLECTION OF FERNS IN THE WORLD.

We are desirous of extending our already large business, and one means of accomplishing this being by pleasing everyone who deals with us, our customers may place their orders in our hands with the fullest confidence.

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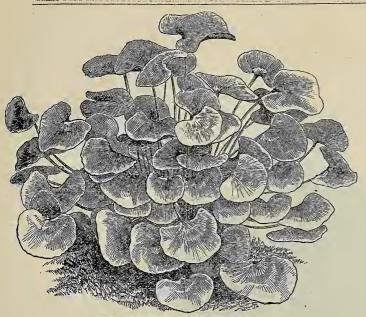
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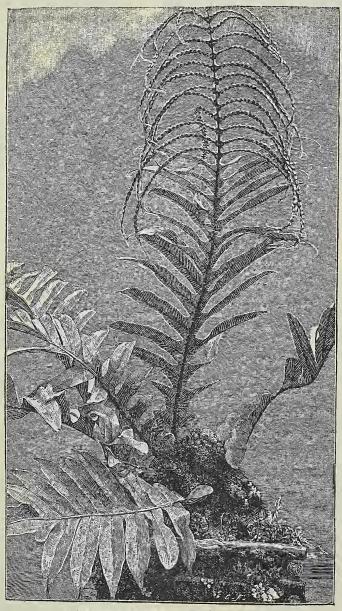
BALANTIUM CULCITUM. From "The Book of Choice Ferns." (See page 46.)



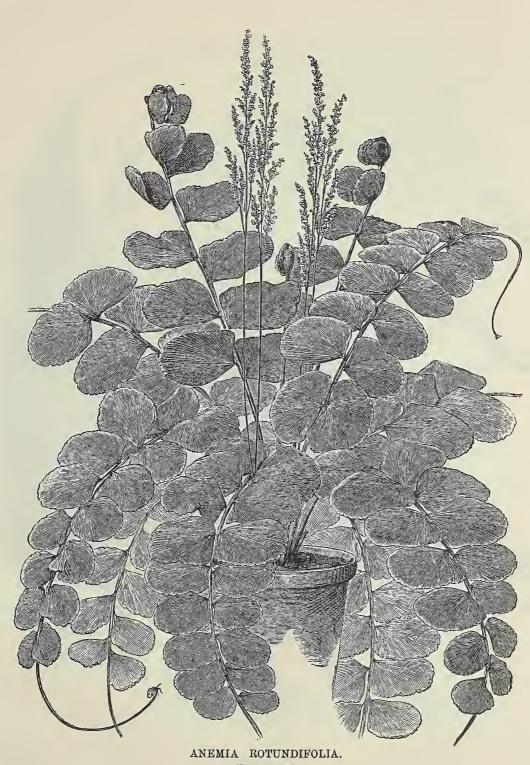
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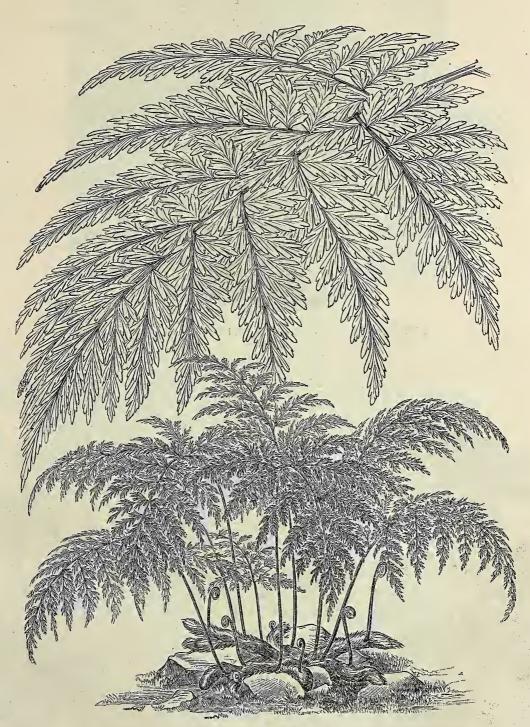
ADIANTUM MACROPHYLLUM ALBO-STRIATUM. (See page 5.)



AGLAOMORPHA MEYENIANA. (See page 9.)

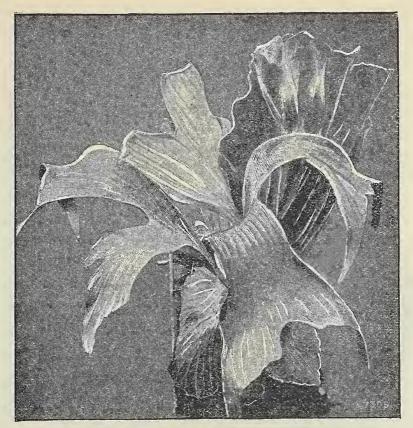


(See page 9.)



DAVALLIA EPIPHYLLA. (See page 13.)





PLATYCERIUM STEMMARIA. (See, page 26.)



POLYPODIUM SCHNEIDERII. (See page 67.)

STOVE FERNS.

THE PRICES AFFIXED TO EACH SPECIES ARE FOR PLANTS OF MEDIUM SIZE; LARGER PLANTS OF MANY CAN BE SUPPLIED AT PRICES PROPORTIONALLY HIGHER, AND SMALLER ONES AT LOWER PRICES. It should be remembered that many Ferns are never large, as they are naturally of small growth.

In some instances there are no prices stated, because at the time of printing this Catalogue we have only Stock plants, or *large* plants, on hand. Prices of the latter, with particulars of size, &c., we shall have pleasure in quoting on application, and the prices of smaller ones, as soon as we are able to procure or propagate them, will appear in our Abridged Catalogue.

New varieties will be reduced in price as soon as possible.

With so large a number of species and varieties as we now possess, many of them being very difficult to replace when we are once sold out of them, it becomes an impossibility to keep up a supply of every variety at all times, but we do our utmost to keep our collection as complete as possible; on the other hand, as we are continually propagating and buying in, AT INTERVALS THROUGHOUT THE YEAR, WE ISSUE ABRIDGED CATALOGUES GIVING THE NAMES AND PRICES OF ALL WE ARE AT THAT TIME ABLE TO OFFER. WE SHALL HAVE PLEASURE IN FORWARDING A COPY OF OUR LATEST ISSUE, GRATIS, SHOULD ONE BE DESIRED. It contains many short descriptions and remarks about Ferns, as well as other information not given in this Catalogue.

The names printed in SMALL CAPITALS are those by which the species are usually known, while those printed in *italics* are synonyms.

The Ferns enumerated in this section should be cultivated in a temperature of 60° to 70° in Winter, and 70° to 80° in Summer, though some of them will grow in greenhouse temperature. *Vide* "Hints on Cultivation," at the end of the Catalogue.

Under the heading Average Height we give what we believe will prove useful information to many, especially when planting Rockwork, Wardian Cases, &c. It must not be understood, however, that the Ferns never grow any higher than the figures attached to each indicate, nor yet that they always attain the respective heights mentioned, because they grow much more luxuriantly under some circumstances than others; nevertheless, the various heights mentioned will give a fair idea of what may reasonably be expected under ordinary conditions. We would also remark that the figures do not refer to the actual length of the fronds, as some species produce fronds which are pendent, and as these hang down more or less, to give the length of the fronds would convey a wrong idea of their height.

b denotes that the varieties so marked are suitable for Baskets.

c	59	"	>>	"	" Cases.
d	"	")) -	"	deciduous.
g	"	,,,	"	57	suitable for Warm Greenhouses.

ACI	ROSTICHT	JW				Avera	ge H	eight.						s.	đ.
	APPENDICÚL	ATUM,	syn., E	genolfia	a a.		1			Hima	alayas				
	DRYNARIOII	ES	•••	•••			3	•••	П	Penar	ng			3	6
	MUSCOSUM	•••		•••		• • •	2			Trop	. Ame	erica	•••	3	6
	OSMUNDACE	uм, sy	n., Pol	ybotry	a o.		2	•••	•••	Cuba	to Br	azil.	•••	3	6
AC'	CINIOPTE	RIS													
	RADIATA	•••	•••				$\frac{3}{4}$	•••		Austr	alia.				
AD:	IANTUM														
g	ÆMULUM	•••	• • •	•••			1	• ••						1	6
bg	AMABILE)	. ,													
	MOOREII	•••	•••	•••	•••	•••	. 1	•••	• • • •		•••	•••	•••	1	6
	A beaut	iful Fe	rn nro	ducing	grace	ful dr	oonir	a light	oreen	frande	a chec	ies sue	cially s	mita	hla

A beautiful Fern, producing graceful, drooping light green fronds, a species specially suitable for growing in baskets or on cork suspended.

AD	AINTUM-Cont	inued	•			Aver	age Heig	yht.						s.	d.
	ANEITENSE (S	ee illu	istration	1)			$1\frac{1}{2}$	•••	•••	Island	of A	neitum	•••	3	6
	ASARIFOLIUM				•••		$\frac{3}{4}$	•••	••••	Maur	itius	•••	•••		
	BAUSEII (see i	llusti	ration)		•••		2		****	•••	•••	•••	•••	1	6
cg						•••	$\frac{1}{2}$	•••		Berm		•••		1	6
of	This is a varie slender fronds	ety, v abou	ery dwa t six inc	rf ar hes l	nd comp	act in	its hal	oit of	growth,	forming	neat	pretty	green	tui	fts
	BESSONIANUI	M	•••		•••	•••	1	•••	•••	•••		·			
	CARDIOCHLÆN polyphyllum	VA }	, 	•••	•••		4	•••	•••	Trop.	Amer	rica	•••	3	6
b	caudatum }		•	•••	•••	•••	1	•••		East	Indies	·	•••	1	6
	Collisii		•••	• • •	•••	•••	2	•••				•••		1	6



b concinnum			•••	•••	1	•••	•	Trop. America		1	0
GRACI	LE		•••	•••	1			Hort		1	0
g — LATUM	·	•••	•••		$1\frac{1}{2}$		•••			1	0
CRISTATUM denticulatum	}			•••	$\frac{1}{2}$			West Indies .		3	6
$egin{array}{c} ext{CULTRATUM} \ ext{\it pentadactylon} \end{array}$, }	•••	•••		$2\frac{1}{2}$	•••		Brazil	•• •••	2	6
CURVATUM			•••		$\frac{1}{2}$	•••	•••	Brazil		3	6
CYCLOSORUM			•••	•••	$1\frac{1}{4}$	•••	•••	Hort		2	6

ADIANTUM—Continued.				Aver	age He	ight.			s.	d.	s.	d.
DOLABRIFORME (see	illustr	ration)	•••				•••	,	•••		ĩ	0
ELEGANTISSIMUM			•	•••	1		•••	•••	•••		2	6
FARLEYENSE				•••	2	•••	•••	West Indies	1	6	2	6
FASCICULATUM			•••	٠.	1	•••	•••		•••	•••		
FEEI flexuosum		· • • •			1			Mexico	•••	•••		
FERGUSSONII	•••			•••	2		•••	Ceylon, Colo	$_{ m mbo}$	•••	1	6
FLABELLULATUM amænum fuscum	•••	•••	•••	•••	1		•••	E. Indies		٠.,	2	6



ADIANTUM BAUSEII.

9	FLEMINGII	•••	•••	•••	•••	1	•••	•••			•••	3	6
	FOVEARUM		•••	•••	•••	$1\frac{1}{2}$	•••	, 	Brazil	•••		1	6
	FRAGILE	•••	•••		•••	1	•••	•••	Jamaica	•••		2	6
	Funckii	•••	•••	•••	•••	2		•••		•••	•••	1	6
	HEMSLEYANUM	•••		•••	•••	1	•••	•••				5	0
	HENDERSONII	•••	•••	•••		$1\frac{1}{2}$		•••	Mexico	•••	٠,٠		
	HETEROPHYLLUM	•••				$\frac{3}{4}$	•••	•••		•••	•••	2	6
	INTERMEDIUM											•	
	BRASILIENSE	•••	•••	•••	•••	11	•••	•••	Trop. Amer	ica	•••	1	6
	triangulatum)									,			

ADIANTUM—Con	tinued	•			Ave	rage H	Teight.		•	S,	d.
Lathamii	•••					$1\frac{1}{2}$		···		 1	6
т			A. h	andsome	and	very	_		Amazon Valley	 3	6
LINDENII bd LUNULATUM			•••	•••	•••	۵	•••			 J	U
bd arcuatum	5	•••	•••	•••	•••	1	955		E. Indies	 1	6



ADIANTUM DOLABRIFORME.

A distinct and handsome species; the pinnules are alternate, lunulate, of a bright green; fronds, 12 to 18 inches long. It makes a pretty basket Fern, on account of its pendent habit.

ΑI	DIANTUM—Continued				A ver	age Heig	ght.				s.	d.
	MACROFHYLLUM		•••		. •••	14	•••	•••	Trop. America	•••		6
	——— ALBO-STR	IATU	JM			$1\frac{1}{4}$	•••	•••	Hort		2	6
	——— — BIPINNATU			•••	•••	2		•••	West Indies	•••	3	6
	A v	ery	distinct	variety,	with	young	fronds	beaut	ifully tinted.			
	MANUATUM					$1\frac{1}{2}$					2	6
	NEO-CALEDONICUM		••		•••	$1\frac{1}{2}$			New Caledonia	•••	2	6
g	NEO-GUINENSE		•••	•••	•••	1	•••,	•••	New Guinea	•••	1	0
	OBLIQUUM MINUS		•••	•••		1	•••		U.S. Colombia		1	6
	Parishii	.,.	•••			$\frac{1}{12}$	•••	•••	Moulmein			
	PERUVIANUM		•••		•••	$1\frac{1}{4}$	•••	•••	Peru		3	6



ADIANTUM NEO CALEDONIÆ,

This beautiful Fern was sent out by us in 1885. In the Gardener's Chronicle, June 9th, 1883, the late Mr. Thos. Moore says: "This interesting new Maiden-hair Fern was exhibited at the recent Whitsuntide Show of the Royal Manchester and Northern Counties Botanical and Horticultural Society by Messrs. W. & J. Birkenhead, of Sale, and was awarded, as it well deserved to be, a first-class certificate. The species is a very distinct one, differing essentially from all its allies in the attenuated shape of the pinnules. In its general aspect this Fern somewhat reminds one of an Adiantopsis, the genus of which Cheilanthes radiata is the type, but on closer examination it is seen to be normally tripinnate and not radiate as in this elegant species."

On the 12th of June, the same year, a FIRST-CLASS CERTIFICATE was awarded to it by the Royal Horticultural Society at South Kensington, and a CERTIFICATE OF MERIT at Regent's Park, on the 13th of June, by the Royal Botanic Society.

ADIANTUM PRINCEPS.

ADIANTUM—Contin	ued.	At	verage Heig feet.	ht.			·
PULVERULENTUM	1)	· ·	feet.		'	Trop. America	s. d 2 6
monosoratum PRINCEPS (see il	Justration)	,	91	•••		New Granada	
REGINÆ			$\frac{2}{2}$ $\frac{3}{4}$	•••		Granada	1 6
RHODOPHYLLUM	•••		1	•••	•••		1 6
A pretty vari	ety, of free cor	npact habi		h; its y		onds are prettily tin	
SANCTÆ CATHER SCHIZOPHYLLUM			2 1	•••		Brazil	2 6
SCUTUM)		•••		•••	•••	Trans Amountas	2 6
Gheisbeghtii ∫ …	··· · ···	•••	$1\frac{1}{2}$	•••		Trop. America	1 6
SEEMANNII	•••	•••	1	•••		Guatemala	3 6
	ADIAN	TUM SP	ECLOSH				
		TOM BE	101000	ALL .			
dg sessillifolium d Henslovianum.			$1\frac{1}{4}$	•••	(Colombia and Peru	1 6
d appearagrant			7.1		1	Brazil, Peru	5 0
DIGITATUM)	illustration)	•••	2	***	•••	Diazii, i Giu	
TENELLUM			$1\frac{1}{4}$			W. Indies	2 6
TENERUM	 NT	•••	$2\frac{1}{2}$. 2			w. maies	1 6
TETRAPHYLLUM		•••	. 1		,,,	Γrop. America	2 6
prionophyllum {				. '			

${\bf ADIANTUM} - {\it Continued}.$			Avera	ge Heigh	ht.					. a	a
TETRAPHYLLUM GRACII	E (see illu	stration	1)	1	•••	•••	Colombia	•••		3	6
A handsome Fern of n fronds when first develope				able for	r the l	beautiful	reddish tint	t assun	ned 1	оу і	its
TRAPEZIFORME				3	•••	•••	W. Indies	•••		1	6
This is a noble-looking one of the most handsome	maidenha	air Fern mental o	, its la of this	rge bra family.	nchin	g fronds	of light gree	n cons	titut	ing	it
VELUTINUM	•••			2	•••	•••	Colombia	•••		3	6
Versaillense		•••		1	•••	•••			•••	3	6
	A pretty	variety	v. mucl	h branc	hed a	nd creste	d.				



ADIANTUM TETRAPHYLLUM GRACILE.

Victoriæ						~					1	6
A lovely	Fern,	of dwa	arf hab	it and	compa	ct gro	wth, wi	th you	ng fronds prettily tin	ted.		
VII.LOSUM						14			Trop. America		1	6
varium)	•••	•••	•••	•••	•••	- 2	•••	•••			-	Ü
WEIGANDII	•••	•••	•••	•••	•••	1	•••	•••			1	0
		A	pretty	variety	, with	crisp t	indulat	ed pini	nules.			
WILESIANUM		•••	•••		•••	2	•••	•••	Jamaica	•••		
WILSONII	•••	•••	•••	***	•••	1	•••	•••	Jamaica, Brazil	.,.	2	6

MEYENIANA		syn., I	Polypo	aum	Ave	rage He	ayıı.		DF.11.			s.	
	•••	1*		•••		$1\frac{1}{2}$		•••	Philippines	•••		2	
The Bear's Pa portion of the fi	w" Fer	rn. It	s dark	green	deepl	y-cut f	ronds a	are han	ies, it has obta dsome and attr ce.	amed	the n	ame fer	til
NEMIA													
ADIANTIFOLI	ſΑ			•••		1			Trop. Ameri	ca			
COLLINA	•••	•••		• • •		1			Brazil	•••			
ROTUNDIFOI	IA			•••	•••	1		•••	Brazil			7	
VILLOSA)												
ferruginea flexuosa tomentosa	}		•••		•••	ı		•••	Brazil		•••	2	-
RTHROPTI	ERIS												
ALBO-PUNCT		ns. As	midium	a. Ver	ahrodir	ım a. 🖇			Mauritius			9	
	_		_			-		mig o (creeper) Austr	olio	•••	9	
C OBLITERATA	, syms.,	MILLUSC					inct spe		reeper) Austr	alla	•••	3	•
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			-)	. <			- NOTE:				
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	4												
.SPIDIUM				ASF	PLENIU	JM AI	LATUM		The second second				
.SPIDIUM CONFLUENS				ASF	PLENIU	JM Al	LATUM		Queensland			1	
									Queensland W. Indies, P			1	•
CONFLUENS				• • • •		. 1		,				1 2	
CONFLUENS DECURRENS				• • • •		1 2		, 	W. Indies, Pl	hilippi	nes		(
CONFLUENS DECURRENS DILACERATU	 JМ		•••			$\frac{1}{2}$ $1\frac{1}{2}$, 	W. Indies, Pl Jamaica Martinique	hilippi 	nes 	2	(
CONFLUENS DEGURRENS DILACERATU PLUMIERII SUBTRIPHYI	 JM LLUM	•••	•••			$ \begin{array}{c} 1 \\ 2 \\ 1\frac{1}{2} \\ 1\frac{1}{2} \end{array} $			W. Indies, Pl Jamaica Martinique Polynesia	hilippi ⁻	nes 	2 1 3	(
CONFLUENS DEGURRENS DILACERATU PLUMIERII SUBTRIPHYI TRIFOLIATU	LLUM M, syn.,	 , Polyp	 odium	 t		$ \begin{array}{c} 1 \\ 2 \\ 1\frac{1}{2} \\ 1\frac{1}{2} \\ 1 \\ 1\frac{1}{4} \end{array} $			W. Indies, Pl Jamaica Martinique Polynesia Trop. Americ	hilippi ca	nes 	2 1 3 1	((
CONFLUENS DEGURRENS DILACERATU PLUMIERII SUBTRIPHYI TRIFOLIATU VARIOLOSUM	LLUM M, syn.,	•••	•••			$ \begin{array}{c} 1 \\ 2 \\ 1\frac{1}{2} \\ 1\frac{1}{2} \end{array} $			W. Indies, Pl Jamaica Martinique Polynesia	hilippi ⁻	nes 	2 1 3	((
CONFLUENS DEGURRENS DILACERATU PLUMIERII SUBTRIPHYI TRIFOLIATUR VARIOLOSUM	LLUM M, syn.,	 , Polyp	 odium	 t		$ \begin{array}{c} 1\\2\\1\frac{1}{2}\\1\frac{1}{2}\\1\\1\frac{1}{4}\\1\frac{1}{2}\end{array} $			W. Indies, Pl Jamaica Martinique Polynesia Trop. Americ India	hilippi ca	nes 	2 1 3 1	
CONFLUENS DEGURRENS DILACERATU PLUMIERII SUBTRIPHYI TRIFOLIATUR VARIOLOSUM ABSCISSUM	LLUM M, syn.,	 , Polyp 	 odium	 t		$ \begin{array}{c} 1 \\ 2 \\ 1\frac{1}{2} \\ 1\frac{1}{2} \\ 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \end{array} $			W. Indies, Pl Jamaica Martinique Polynesia Trop. Americ India W. Indies	hilippi ca	nes 	2 1 3 1	
CONFLUENS DEGURRENS DILACERATU PLUMIERII SUBTRIPHYI TRIFOLIATUR VARIOLOSUM ABSCISSUM	LLUM M, syn.,	 , Polyp 	 oodium 	 t		$ \begin{array}{c} 1\\2\\1\frac{1}{2}\\1\frac{1}{2}\\1\\1\frac{1}{4}\\1\frac{1}{2}\\1\\1\frac{1}{4}\end{array} $			W. Indies, Planaica Martinique Polynesia Trop. Americ India W. Indies Trop. Americ	hilippi ca	nes	2 1 3 1	
CONFLUENS DEGURRENS DILACERATU PLUMIERII SUBTRIPHYI TRIFOLIATUR VARIOLOSUM ABSCISSUM	LLUM M, syn.,	 , Polyp 	 odium 	 t		$ \begin{array}{c} 1 \\ 2 \\ 1\frac{1}{2} \\ 1\frac{1}{2} \\ 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \end{array} $			W. Indies, Pl Jamaica Martinique Polynesia Trop. Americ India W. Indies	hilippi ca	nes	2 1 3 1	
CONFLUENS DEGURRENS DILACERATU PLUMIERII SUBTRIPHYI TRIFOLIATU VARIOLOSUM ABSCISSUM bc ALATUM (See	LLUM M, syn., f	 , Polyp 	 odium 	 t		$ \begin{array}{c} 1\\2\\1\frac{1}{2}\\1\frac{1}{2}\\1\\1\frac{1}{4}\\1\frac{1}{2}\\1\\1\frac{1}{4}\end{array} $			W. Indies, Planaica Martinique Polynesia Trop. Americ India W. Indies Trop. Americ	hilippi ca ca lands	nes	2 1 3 1	
CONFLUENS DEGURRENS DILACERATU PLUMIERII SUBTRIPHYI TRIFOLIATUM VARIOLOSUM ABSCISSUM ABSCISSUM ABCISSUM APICIDENS	LLUM M, syn., 1 All e illustr	 , Polyp cation)	 oodium 	t		$ \begin{array}{c} 1 \\ 2 \\ 1\frac{1}{2} \\ 1\frac{1}{2} \\ 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \\ 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} $			W. Indies, P. Jamaica Martinique Polynesia Trop. Americ India W. Indies Trop. Americ South Sea Is.	hilippi ca ca lands	nes	2 1 3 1 1	
CONFLUENS DEGURRENS DILACERATU PLUMIERII SUBTRIPHYI TRIFOLIATUM VARIOLOSUM ABSCISSUM ABSCISSUM ABCISSUM APICIDENS AURITUM	LLUM M, syn., 1 All e illustr	 , Polyp cation)	odium eottopt	 t		$\begin{array}{c} 1 \\ 2 \\ 1\frac{1}{2} \\ 1\frac{1}{2} \\ 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \\ 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \\ 1 \\ 3 \\ \end{array}$			W. Indies, Plamaica Martinique Polynesia Trop. Americ India W. Indies Trop. Americ South Sea Is. Trop. America	hilippi ca ca lands	nes	2 1 3 1 1	
CONFLUENS DEGURRENS DILACERATU PLUMIERII SUBTRIPHYI TRIFOLIATUM VARIOLOSUM ABSCISSUM ABSCISSUM ABCISSUM APICIDENS AURITUM	LLUM M, syn., 1 All e illustr	 , Polyp cation)	odium eottopt	 t		$\begin{array}{c} 1 \\ 2 \\ 1\frac{1}{2} \\ 1\frac{1}{2} \\ 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \\ 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \\ 1 \\ 3 \\ \end{array}$			W. Indies, Plamaica Martinique Polynesia Trop. Americ India W. Indies Trop. Americ South Sea Is. Trop. America	hilippi ca ca lands	nes	2 1 3 1 1	
DECURRENS DILACERATU PLUMIERII SUBTRIPHYI TRIFOLIATUM VARIOLOSUM ABSCISSUM bc ALATUM (See APICIDENS AURITUM AUSTRALASI	LLUM M, syn., f e illustr	 , Polyp cation)	odium eottopt	 t	 	$\begin{array}{c} 1 \\ 2 \\ 1\frac{1}{2} \\ 1\frac{1}{2} \\ 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \\ 1 \\ 1\frac{1}{4} \\ 1\frac{1}{2} \\ 1 \\ 3 \\ \text{ird's N} \end{array}$	 est " F	 	W. Indies, Plamaica Martinique Polynesia Trop. Americ India W. Indies Trop. Americ South Sea Is. Trop. America Australia	hilippi ca ca lands	nes	2 1 3 1 1 1	

	ntinued.			Ave	rage Heigh	ht.					s.	d.
c BIFIDUM lineatum lineatum var	. bipinna		vn., Cœnop	oteris fa		.4ft	. Mauriti	us			1	6
CICUTARIUM dissectum	}	••		•••	1 .		. Trop. A	merica			2	6
CONTIGUUM,	var. FISS	UM		•••	$1\frac{1}{2}$.		South S	Sea Islaı	nds .	•••		
ERECTUM EROSUM	•••			•••	$1\frac{1}{4}$.		. Tropica . W. Ind		•••	•••	1 1	6
FORMOSUM subalatum				•••	1 .			A merica	•••		1	6
g FRAGRANS Mexicanum planicaule	}	• •••		•••	1 .	••	. Jamaica	ì	•••		1	6
GODMANII				•••	2 .		. New G	ranada	•••	••		
c HETEROCARP	PUM			•••	1 .		. India, (Ceylon				
7.35											a i	
ASPLENI	UM AUS	STRALA	SICUM.			ASPL	ENIUM VIV	VIPARU	M.		4 7	
HETERODON			SICUM.		1½ 3	•••	. Java	•••	•••		2 3	6
HETERODON HORRIDUM C INÆQUALE		STRALA	.sicum. 		3 .	ASPI	. Java . Sandwi	 ch Islai	•••		2 3 1	6 6 0
HETERODON HORRIDUM			 		$\frac{3}{1\frac{1}{2}}$. Java . Sandwi . Maurit	 ch Islar ius	•••			0
HETERODON HORRIDUM c INÆQUALE inæqualifoli LANCEUM b LONGISSIMU flagelliferum				 •••	$\frac{3}{1\frac{1}{2}}$ $\frac{3}{4}$ $\frac{3}{2}$. Java . Sandwi . Maurit . Himala	 ch Islan ius ayas ascar	 nds 		1 1 2	6
HETERODON HORRIDUM c INÆQUALE inæqualifoli LANCEUM b LONGISSIMUI flagelliferum This Aspler constitute it a c	$\left\{\begin{array}{c} \dots & \dots \\ \alpha & \vdots \\ \dots & \dots \\ n & \vdots \\ n & \vdots$	oduces I	· ···· · ···· · ···· · ···· long pende	 •••	3 $1\frac{1}{2}$ $\frac{3}{4}$ 2 ands of da		. Java . Sandwi . Maurit . Himala . Madag	ch Islan ius ayas ascar s habit	and fre		1 1 2 row	0 6 6
HETERODON HORRIDUM c INÆQUALE inæqualifoli LANCEUM b LONGISSIMU flagelliferum This Aspler constitute it a c	a } m } n } n a capital B ONICUM	duces I	· ···· · ···· · ···· long pendern.	 ent from	3 $1\frac{1}{2}$ $\frac{3}{4}$ 2 ands of da		. Java . Sandwi . Maurit . Himala . Madaga	ch Islanius nyas ascar s habit	and fre	 ee gr	1 1 2 cow	
HETERODON HORRIDUM c INÆQUALE inæqualifoli LANCEUM b LONGISSIMUI flagelliferum This Aspler constitute it a c NEO-CALED NIDUS, syn.,	a } a } n ium procapital B onicum Neottop	duces I asket F	ong pende	ent from	$\frac{1}{2}$ $\frac{3}{4}$ $\frac{2}{2}$ ands of da $\frac{1}{2}$. Java . Sandwi . Maurit . Himala . Madag	ch Islanius ayas ascar s habit Caledon	and fre		1 1 2 cow	6 6 cth
HETERODON HORRIDUM c INÆQUALE inæqualifoli LANCEUM b LONGISSIMUI flagelliferum This Aspler constitute it a c NEO-CALED NIDUS, syn.,	a } a } n ium procapital B onicum Neottop	oduces I asket F	ong pende	 ent from rns. I	3 $1\frac{1}{2}$ $\frac{3}{4}$ 2 ands of da 1 2 2 2 3 4 4 4 4 4 4 4 4 4 4	rk greei	. Java . Sandwi . Maurit . Himala . Madaga n colour. It New 0 E. Ind ded, bright g	ch Islanius ayas ascar s habit Caledon	and fre	 ee gr	1 1 2 cow	
HETERODON HORRIDUM c INÆQUALE inæqualifoli LANCEUM b LONGISSIMUI flagelliferum This Aspler constitute it a c NEO-CALED NIDUS, syn.,	a } a } nium procapital B onicum , Neottop e of the '	duces I asket F teris n. "Bird's	ong pendern. Nest" Fe	 ent from rns. I	3 $1\frac{1}{2}$ $\frac{3}{4}$ 2 ands of da 1 2 2 2 3 4 4 4 4 4 4 4 4 4 4	rk greer	Java Sandwi Maurit Himala Madaga colour. It New (E. Ind ded, bright g pretty.	ch Islan ius ius ayas ascar s habit Caledon lies reen fro	and fre	 ee gr	1 2 cow 3 2	
HETERODON HORRIDUM c INÆQUALE inæqualifoli LANCEUM b LONGISSIMUI flagelliferum This Aspler constitute it a c NEO-CALED NIDUS, Syn., On	a } a } n } n ium procapital B onicum Neottop e of the f	duces I asket F teris n. "Bird's	long pendern. Nest" Fe	ent from	3 $1\frac{1}{2}$ $\frac{3}{4}$ 2 ands of da 1 2 at has tall $1\frac{1}{2}$ arcceful, a 1 1	rk greer	Java Sandwi Maurit Himala Madaga colour. It New C E. Ino ded, bright g pretty.	ch Islan ius ayas ascar s habit Caledon lies reen fro	and fre	 ee gr	1	
HETERODON HORRIDUM c INÆQUALE inæqualifoli LANCEUM b LONGISSIMUI flagelliferum This Asplet constitute it a c NEO-CALED NIDUS, syn., On NOBILIS g OBTUSATUM OBTUSIFOLI c OBTUSILOBU	a } a } a } n } n ium procapital B onicum Neottop e of the f	duces I asket F teris n. Bird's rarf, crecontinue	long pendern. Nest" Fe ronds finel conditions from the proce	ent from y cut, g	3 $1\frac{1}{2}$ $\frac{3}{4}$ 2 ands of da 1 2 at has tall $1\frac{1}{2}$ graceful, a 1 1 $\frac{1}{3}$ ahrows outhus spreas	rk green , undivi ta num	. Java . Sandwi . Maurit . Himala . Madaga n colour. It New (E. Ind ded, bright g pretty New (Trop Fiji Isber of runne	ch Islan ius ayas ascar s habit Caledon ilies reen fro Zealand Ameri slands	and fre i onds ca ch take	ee gr	1	

AS	PLENIUM—	Contini	ied.			Ave	rage Hei	ight.					a	d.
	PROLONGATU	м		•••		•••	1	•••		East Indies	•••	•••	2	6
			A choic	ce, dist	cinct v	ariety,	with na	rrow,	deeply-c	ut fronds.				
	PTERIDOIDES	• • • •	•••	• • •	•••	•••	1 .	•••	•••	Lord Howe's	Island	•••	5	0
	PTEROPUS	•••	··· .	•••	•••		1	•••	•••	West Indies	•••	•••	2	6
	SERRA	•••	•••	•••	•••		1	•••		Brazil			1	6
	MAJ	OR	•••		•••	•••	$1\frac{1}{2}$	•••	•••	Brazil	•••	•••		
	SERRA NATA	LENSI	s	•••	•••		•••	•••	•••	Natal	•••	•••	5	0
	VIELLARDII	var. F.	ACILE				•••	•••		South Sea Isl	lands	• • •		
c	VIVIPARUM,	syn., (Cænopte	ris v.			1	•••		Mauritius			2	6
	ZEYLANICUM	, syn.,	Diplazi	ium z.		•••	$1\frac{1}{4}$	•••	•••	Ceylon	•••	•••	2	6
BL	ECHNUM													
c	GRACILE		, • • •	•••		•••	1			Trop. Americ	a		1	0
c	$\left. \begin{array}{c} \text{LANCEOLA} \\ trifoliatum \end{array} \right\}$	•••		•••		•••	$\frac{1}{2}$	•••		Brazil	•••	•••	1	0
	LATIFOLIUM fraxineum	}	•••	•••			1		•••	Trop. Americ	ea	•••	1	6



BLECHNUM LANCEOLA.

CHEILANTHES ELEGANS.

		,								
CAMPYLONEURU	\mathbf{JM} , syn., P	olypoo	lium							
ANGUSTIFOLIUM	•••			1	•	•••	Trop. America	•••	2	6
HENDERSONII		•••	•••	1	•••	•••	Trop. America	• • •		
BREVIFOLIUM		•••	•••	2	•••	• • •	Trop. America	• • •	2	6
PHYLLITIDIS	•••	•••	•••	2		•••	Trop. America	• • •	2	6
REPENS, syn., Poly	podium r.	•••	•••	1	•••	•••	Mexico, W. Indies	•••	2	6
RIGIDUM syn., Po	olypodium niti	dum	•••	$\frac{1}{2}$	•••		Trop. America	•••	2	6
CHEILANTHES		-								
g elegans, syn., Myr			•••				Trop. America			
This is commonly	y called "The	Lace	Fern."	It is	very be	autiful	; our illustration giv	es ar	n id	lea
of its habit of growth. temperature.	. It is not o	nly a	good st	tove F	ern, but	it gro	ws equally well in g	green	hov	ıse
PROFUSA, syns., Pe	llæa p., Notho	clœna	p	$\frac{1}{6}$	•••	•••	S. Africa	•••	3	6



DAVALLIA ALPINA.

A pretty little Fern, with dark green fronds of coriaceous texture. Very suitable for Fern cases as well as for pot culture. It should be in every choice collection.



DAVALLIA HETEROPHYLLA.

A charming species, has rapidly spreading rhizomes, from which spring many bright green fronds, the barren and the fertile being quite distinct. It grows well in baskets or on cork suspended.

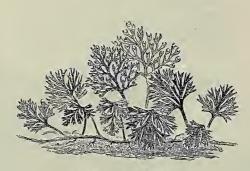


RADLATA, syns., Adiantopsis r., Adiantum r., Hypolepis r. 1 Trop. America 3	СН	EILANTHES-Cont	inued.			Avera	ge Hei feet.	ght.				s.	
A rare and very handsome species; the pinnæ all radiate from the top of the stem. TENUIS Part Part		RADIATA, syns., Ad	iantops	is r., A	diantur	n r.,					٠		
Teruis					•••		_		• • • •		•••	3	
Comparison Com			ery han	dsome	species	; the]	oinnæ	all rad	iate fro	m the top of the ster	n.		
DAVALLIA			Iyriopte	ris l., l	Nothoc	lœna l.	1.	•••		Trop. America	•••	2	
DAVALLIA D ACULEATA, syn., Odontosoria a.							1			Trop. America		2	
b Aculeata, syn., Odontosoria a. 1 W. Indies 3 A very rare and beautiful species, having underneath the fronds numbers of sharp thorns. c Alffra, syn., Humata a. (see illustration) 1 Borneo 1 CILIATA, syn., Leucostegia hirsuta 1.	A 6												
A very rare and beautiful species, having undermeath the fronds numbers of sharp thorns. c ALPINA, Syn., Humata a. (see illustration)							,			XX7 T1:		0	
Calpina, syn., Humata a. (see illustration) 1	6	ACULEATA, syn., Oc	lontosor	'1a a.	···	· · ·	l. Jamas	 .th .th.a	fuanda			.3	
CILIATA, syn., Leucostegia hirsuta		•						ten the			iorns.	7	
DECORA	c					$^{\mathrm{n}})$	· ·	•••	•••		٠		
DECURRENS \$\frac{3}{4}\$			icostegi		uta	•••	_	•••			.S	_	
DISSECTA			•••	•••	•••	•••		•••		Java	•••		
DAVALLIA FIJIENSIS 2 Ceylon 2	7		•••	•••	•••	•••		•••	•••	T	•••		(
DAVALLIA FIJIENSIS 2 Ceylon 2	b		•••	•••		•••		•••	•••		•••		1
DAVALLIA FIJIENSIS. 2 Ceylou, Java 2 2 2 2 2 3 3 4 4 5 4 4 5 4 4 5 4 5 5			•••	•••	•••	•••		•••	•••		• • • •		
DAVALLIA FIJIENSIS. DAVALLIA FIJIENSIS. DAVALLIA FIJIENSIS. DAVALLIA FIJIENSIS. DAVALLIA				•••	•••	•••		•••	•••		• • •		
DAVALLIA FIJIENSIS. DAVALLIA FIJIENSIS. DAVALLIA FIJIENSIS. EDIENSIS (see illustration) 1	7		•••	•••		•••		•••	•••	Ceylon, Java	•••		
DAVALLIA FIJIENSIS. Fiji Islands 2	b		YLA	•••	•••	•••	-	•••	•••	Non-Courth Woles	•••		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		EPIPHYLLA	•••	•••	•••	•••	15	•••	•••	New South wates	•••	9	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-											1,000	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		- west		1		A Taran	1				. The state of the		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					D A T	7	A 17	TTTD	data M				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					DAV	Алы	A. F	19114	N 515.				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		FIJIENSIS (see illus	stration))			1	•••		Fiji Islands		2	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		EFFUSA	•••	•••			$1\frac{1}{2}$		•••			5	
		ELEGANS		•••		•••			•••		•••	2	
ROBUSTA			A ve	ery bea	autiful	variet		h fine	ly cut				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		——— MAJOR	•••	•••	•••	•••	_		•••	Fiji	•••		
A beautiful variety of graceful habit, with slender stems and gracefully arching fronds. FENICULACEA (see illustration)			•••	•••	•••	•••		•••	•••				
FŒNICULACEA (see illustration) 2 Fiji Islands GLABELLA $\frac{3}{4}$ 2 GRIFFITHIANA $1\frac{1}{2}$ Assam, China 2												5	1
GLABELLA $\frac{3}{4}$ 2 GRIFFITHIANA $1\frac{1}{2}$ Assam, China 2			_	_	ul habi	t, with	_	er stem	s and g		nds.		
Griffithiana $1\frac{1}{2}$ Assam, China 2			illustra	tion)	••	•••		. •••	•••	Fiji Islands	•••	_	
				•••	•••	•••		•••	• • • •		•••		(
A very handsome variety, with thick dark green fronds; rhizomes covered by silvery-white scales.										Accom (Thing		63	
		GRIFFITHIANA		•••		•••		•••	•••		•••		
		GRIFFITHIANA					frond	s; rhiz	omes c				

\mathbf{D}^{A}	VALLIA—Co	ntinue	7.			Avera	ge Hei	ght.					3
	HIRTA	•••	•••	•••	•••	•••	feet.	•••	•••	E. Indies	•••	s. 2	d. 6
c	$\left\{ \begin{array}{c} \mathrm{Kunzii} \\ \mathit{nitidula} \end{array} \right\}$	•••	•••	•••	•••		$\frac{1}{2}$	•••	•••	S. Africa		2	6
g	LORRAINII	•••	•••	•••	•••	•••	1		•••	Malay Peninsula	•••	2	6
	MEMBRANULO	osa, sy	n., Leu	costeg	ia m.	•••	1			Nepaul		3	6
	ORNATA	•••	•••		•••	•••	2		•••	Java		3	6
	PARVULA, SY	ns., A	rophor	us p.,	Leucos	tegia p.	$\frac{1}{12}$	•••	•••	Malay Archipel.		2	6
С	PEDATA, syn.		-		•••	• 15	$\frac{1}{2}$	•••	• • • •	Malayan Archipel.		3	6
ь		A }				•••	- <u>3</u>	•••		Malayan Archipel.	•••	1	6
	JI J	T	he you	ng fron	ds of t	his spec	cies ha	ve a pe	eculiar	bronzy tint.			
	divaricata				•••	•••	2	•••	•••	Malayan Archipel.		2	6



DAVALLIA FIJIENSIS PLUMOSA. (From "The Book of Choice Ferns.")



DAVALLIA PARYULA.

This exceedingly dwarf species is a lovely little Fern, with finely cut bright green fronds and brown creeping rhizomes. It is very rare, is in few collections, but should be grown by everyone.

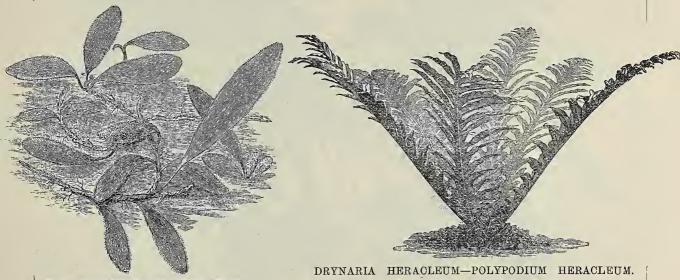
	PYCNOCAF	RPA			•••	•••	•••	$\frac{3}{4}$		•••	Java	•••	•••		1	6
	A	prett	y spec	ies, w	ith dee	p glossy	green	fronds	; the	young	foliage of	a bron	nzy hue			
	RETUSA		•••	•••	•••		•••	$1\frac{1}{2}$	•••	•••	Sumat	ra	•••	•••		
	SOLIDA		•••	•••			•••	2		•••	Malaya	an Ar	chipel.	•••	5	0
in	This spl	endi on c	id Ferr	n, with	h its la: positio	rge, brig	tht gre	en, grac fronds	eful :	foliage, hang d	is one of lown and	the be	est for their	culti beau	vati ty.	on
cg	TYERMAN	INII	•••	•••				34		•••	Çhina	•••	•••	•••	1	6
sle	A prettender rhize eenhouse t	y D me,	avallia which	, of o												

The Davallias, excepting several of the smallest species, are all excellent for baskets and for suspended cork blocks. They are also very durable when cut.

DICTYOPTERIS

Camerooniana (syn., Polypodium C.		3	•••	•••	Cameroon Mts.	•••	3	6
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DIPLAZIUM			Aver	$age\ H$	eight.		·	~	d
GRANDIFOLIUM		•••		3	•••		Trop. America	$\stackrel{ m s}{2}$	6
LATIFOLIUM	• • • • • • • • • • • • • • • • • • • •	•••	•••	3	•••	•••	Ceylon	. 2	6
PLANTAGINEUM, Syr	., Aspleniu	m p.	•••	1	•••	•••	Trop. America	. 1	6
DORYOPTERIS									
DUVALLII	,		•••	1					
LUDENS, syn., Pter	ris		•••	1	•••	•••	Malayan Peninsula	. 3	6
NOBILIS	,	•••	•••	1	•••	•••	Trop. America		
рагмата, syns., Lit	obrochia p.	, Pteris	p.	$\frac{3}{4}$	•••	• • • •	Trop. America	. 1	-6
PEDATA, syn., Pteris	s p		•••	$\frac{1}{2}$	•••	•••	Brazil		
DRYMOGLOSSUI	VI.								
PILOSELLOIDES, syn A very rare specie being longer and narro	s, producing	small,	almost	round	l, thick,	fleshy.	barren fronds, the fertile	. 1 e fror	6 nds
SPATHULATUM		•••		$\frac{1}{6}$		• • • •		1	L :
DRYNARIA									
CORONANS, syns., P A noble Fern, of growing in the form of	f large grov	vth; its	s rhizoi	ne is	thick,		E. Indies looking and creeping,		6 all
2000									



DR

RYM	oglossum s	PATH	ULATU	M.				H	rom "Tl	ne Book of Choice Fer	ns."		
	DIVERSIFOLI. folium, P. HERACLEUM	rigidu		ypodiu: 	m di 	versi- 	2 4	•••	•••	Malaccas, Fiji Java, Philippines	•••	2	6
	alatum	•••	•••	•••	•••		2	•••	• • •	icrosorum, Acrostic Malayan Archipel.	• • • •		
r	hich the veini	no is re	emarkal	bly dist	inct.	like net	twork	c all ov	er the f	ttain a length of 3 or ronds. It makes a second the more general terms of the second s	good 1	pot ·	or
	propinqua, podium p.	•••		•••	•••	•••	1 2		•••	E. Indies India. China, Cey	 lon	2	6
F	QUERCIFOLIA LAPHOGLO		 M, syı	 1., Acre	 ostich	um	4	•••	•••	india, Onina, Coy.	1011.		
	CONFORME						$\frac{1}{2}$		•••	Java	•••		
	HERMINIERI	ı		•••			$\frac{1}{2}$	•••		Trop. America	•••	3	6
	LATIFOLIUM LONGIFOLIUM	1	•••				$l\frac{1}{2}$			Mexico, Brazil	•••	3	6
	MUSCOSUM						$1\frac{1}{2}$			Trop. America		3	6
	RIGIDUM			•••			$\frac{3}{4}$			Philippines	•••	2	6
	b viscosum						1			W. Indies	•••	3	6

FADYENIA		Ave	rage Hei	ght.				٠	s.	d.
c prolifera, syn., Aspidium p.	•••	•••	$\frac{1}{3}$	•••	•••	Jamaica	•••	•••	1	6
GLEICHENIA										
DIGITOMOMA			21			Tropics			3	6

A fine, quick-growing, useful Fern, easily cultivated in stove temperature; is good for exhibition purposes, and well adapted for planting on a Rockery; its rhizomes spread rapidly in all directions and send up an abundance of foliage in a short time. The fronds of this and all other Gleichenias last well in water when cut.



GYMNOGRAMMA DECOMPOSITA.

G	ONIOPHLEBIUM, syn., Polypodium		
	ALBO-PUNCTATUM $1\frac{1}{2}$	3	6
	APPENDICULATUM syns., Polypodium a., Polypodium s. 1ft. Mexico	1	6
	CHNOODES, syn., Polypodium c W. Indies, Venezuela	2	6
	A beautiful basket Fern, with soft pendent fronds, 3 to 4 feet in length.		
	CUSPIDATUM) Comp. Calculatoria a	0	. 0

Java

syn., Schellolepis c.

argutum.

GONIOPHLFBIUM—Continued.	Avera	ige He	eight.					er	A
GLAUCOPHYLLUM		$\frac{3}{4}$		•••	W. Ind	es	• •••	1	6
This beautiful species, not long in cul worthy of a place in every collection of Fern		n, of s	small gre	owth,	and deep	glaucous col	our, i	s w	ell
GLAUCOPHYLLUM GLABRUM	•••	$\frac{1}{2}$		•••	•••		•••	1	6
LORICEUM	•••	1	•••		•••		•••	2	6
менигоцим, syn., Polypodium n.	•••	2	•••	•••	W. Ind	lies		3	6
b subauriculatum, syn., Schellolepis s.	•••		•••		Malaya	n Archipel.		2	6
This is one of the best basket Ferns 10 feet, hanging down most gracefully.	in cult	ivati	on, the f	fronds	sometime	es attaining	a len	gth	of
verrucosum, syns., Polypodium v., Sch	iellolepi	s v.	2ft.	•••	Malacc	a	•••	2	6
- Andrews									





GYMNOGRAMMA PERUVIANA ARGYROPHYLLA.

This is probably the best of the Silver Ferns, having not only an abundance of white farina or powder underneath, but also a thinner covering on the upper surface and the stems of every frond.

GYMNOGRAMMA SCHIZOPHYLLA GLORIOSA.

A most beautiful variety, with long, graceful, drooping fronds, cut into exceedingly narrow segments. It makes a handsome specimen.

GONIOPTERIS

REPTANS, syns.	, Polypodiu	ım r., E	com.	positum	$1 \frac{1}{2}$	•••	•••	Jamai	ca	•••	•••	1	0
$egin{aligned} extsf{VIVIPARA} \ fraxinifolia \end{aligned}$	} syns., P	olypod	ium v	., P. pro	oliferun	n $1\frac{1}{2}$ f	t.	Brazil		•••	•••	1	6
GYMNOGRAM	MA												
ALSTONII, Gold	l Fern			•••	2		•••	•••			•••	1	6
CALOMELANOS,	Silver Fern	·		•••	$2\frac{1}{2}$			Trop.	Americ	a	•••	1	0
CANTONENSIS	•••		•••		$\frac{1}{4}$		•••	Canto	n	•••	• • •	2	6
CHÆROPHYLL	A (an Anni	ial Fer	n)		$\frac{3}{4}$	•••	•••	Cuba	•••	•••	• • •	2	6
CHRYSOPHYLLA	, Gold Fer	n	•••	•••	2		•••	W. Inc	lies	•••		2	6
	- GRANDIC	eps, cre	ested 6	Fold Fe	$rn \frac{3}{4}$		• • •	.,.			•••	2	6
	e crested v					specim	en. V	ery dist	nct and	d desir	able.		
	 s v:	PERBA		•••	1 .	•••	•••		•••	•••	• • •	3	6
	- LAUCHEA	NA, Go	ld Fe	rn	$1\frac{1}{2}$	•••		•••		•••	•••	1	6
CHRYSOPHYLL	A MULTIC	EPS	•••		1	•••	•••	•••			•••		
DECOMPOSITA,	Gold Fern		•••	•••	$2\frac{1}{2}$		•••			•••		1	6
					3		•••					3	6
	andsome va		with g	raceful	fronds	, heavil	y pow	dered, ve	ry robu	ıst.			
					•								

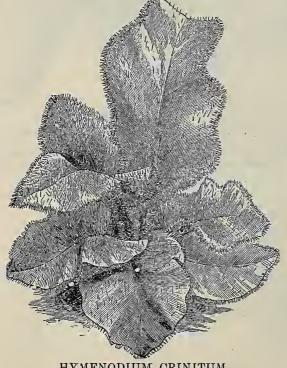
GYMNOGRAMMA—Continued.	Average Heig	iht.		,	s. d.
Dobroydense, Gold Fern	$1\frac{1}{2}$	••• (., ••• (••• (.			1 6
FLAVESCENS	1		•••	•••	
Martensii, Gold Fern	$1\frac{1}{2}$				1 6
GRANDICEPS	· · · 1	· · · · · · · · · · · · · · · · · · ·	•••	9	2 6
MUELLERII A very distinct	and choice species, a	warded F.C.C. by R.I	Australia I. Socy.	8	5 0
Parsonsii, crested Gold Fern					



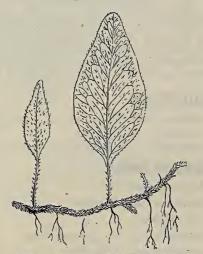
GYMNOPTERIS QUERCIFOLIA.



HEMIONITIS PALMATA.



HYMENODIUM CRINITUM. From "The Book of Choice Ferns."

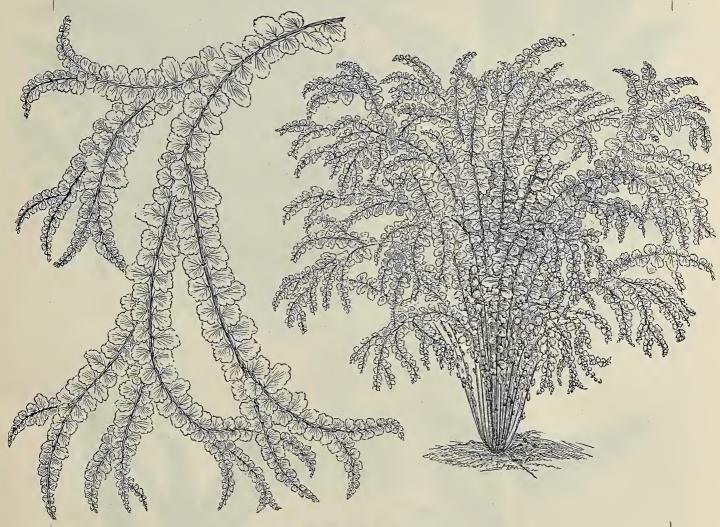


LOPHOLEPIS PILOSELLOIDES. From "The Book of Choice Ferns."

Pearceil 1	•••		
This is a stronger grower than the preceding; both are very pretty.	•••		
Peruviana argyrophylla, Silver Fern 1½ Trop. America	•••	1	0
PULCHELLA, Sulphur Fern $1\frac{1}{2}$ Venezuela	•••		
RUFA $1\frac{1}{2}$ West Indies	•••	1	6

	3.	LOVE	A PER	No.							. 10
GYMNOGRAMMA—Continued.		Avera	age Heig)	ht.							
SCHIZOPHYLLA			feet.			Jamaica			s. 2	d. 6	
GLORIOSA			1 ½						2	6	
SUPERBA	•••	•••	$1\frac{1}{2}$	•••			•••		3	6	
An exceedingly handsome va abundant. A fine basket Fern. N	ariety,	a sti		ower,	fronds	finely cut	, deep	gree	n a	nd	
TARTAREA, Silver Fern			$1\frac{1}{2}$			Trop. Amer	rica		1	6	
TOMENTOSA			$1\frac{1}{2}$			Trop. Amer			1		
TRIFOLIATA			3			Trop. Amer			3	6	
Wettenhalliana, crested Sulph	ur Fer	n	1						2	6	
GPMNOPTERIS, syn., Acrostiche	um · ·				= .						
ALIENA			1			Trop. Amer	ica		2	6	
c QUERCIFOLIA syns., Acrostich	, , , , , , , , , , , , , , , , , , ,	Poly	dium	. 1		Ceylon			2	6	
neitnerii syns., Acrostich	num q.	Fory	pourum	q. 2	10.	Ceylon	•••	•••	4	U	
HYMENODIUM, syns., 4crost ch	hum, D	ictyog	jlossum								
CRINITUM (The Elephant's Ear Fe						W. Indies					
**											
The state of the s			ris .								
				1	STATE OF THE PARTY.						
	世 雅 3	e elis		-							
	海	學祭	Sec.	. 4 6			A				
	No.	***	i kir								
		CANAL TO SERVICE AND ADDRESS OF THE PARTY OF			The same of the sa			MAN THE			NAME OF TAXABLE PARTY.
		THE .	The same of the sa						The state of the s	A STATE OF THE PARTY OF THE PAR	
	张	in the second	V								
	4	The same of the sa		600				1	THE STATE OF THE S	À	
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	us.						100				
							X	A			
10人人以李紫紫丰	表表验	· · · · · · · · · · · · · · · · · · ·									
		South.			45				A		
LEUCOSTEGIA AFFINIS	3.			M	ENIS	SCIUM S	IMPL	EX.			
HYPODERIS						m · · · 1 .1			2	0	
Brownii	•••	•••	1		•••	Trinidad		• • •	2	6	
LEPTOCHILUS, syn., Acrostichun											
DECURRENS, syn., Gymnopteris d.	•••	•••	1			Ceylon	•••	•••	1	6	
LEUCOSTEGIA, syn., Dava/lia											
4 437 4 4.	•••		1			Ceylon			3	6	
			$1\frac{1}{2}$			E. Indies	•••	•••	2	6	
с нігвита, syns., Davallia ciliata, Мі	icrolepi	a h	. "	•••		Luzon	•••		2	6	
——— ANGUSTATA			$1\frac{1}{2}$			Malay Penir	ısula	•••	2	6	
d PULCHRA			1	•••	•••	Nepal	•••		2	6	
LONCHITIS											
PUBESCENS			3		1	Mauritius	· · ·		3 (6	
PUBERUENO											

NE	PHROLEP		•			Aver	age He	right.	•••			•••		s. 1	d. 6
	BAUSEII	•••			•••		$1\frac{1}{2}$	•••	•••	•••	•••			1	6
				\mathbf{A}	very o	distinct	and pr	etty var	riety.						
	TUBEROSA	syn.,	Aspid	lium t.	•••		$2\frac{1}{2}$		Centi	al Am	ierica, I	E. Indie	3	1	6
	CORDIFOLIA C	OMPAC	TA		•••		$1\frac{1}{2}$	•••		•••	•••	•••		1	6
b	DAVALLIODES	, syn.,	Aspid	ium d.	• • • •		3	•••		Mala	yan Ar	chipel.	• • •	2	6
b		FURC	ANS (S	ee illus	tratio	n)	•••		•••		•••	•••		3	6
nur	A beautiful amerous archin	nd dis	tinct ds from	crested n 3 to	varie 4 feet	ty of N. long.	davall It mak	iodes. es a ha	It is conducted	f robu	nst grov	vth, sen <i>Vide</i> illu	ding ıstra	for tion	th

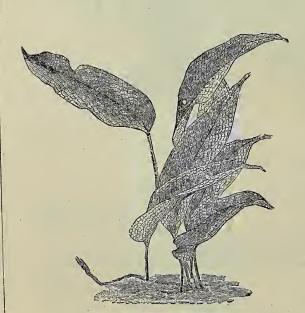


NEPHROLEPIS DUFFII.

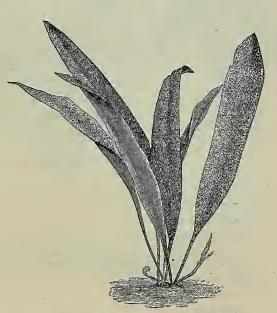
b	——— MULTICEPS	• • •	•••	• • •	$1\frac{1}{2}$	• • •	•••	• • •	• • •	•••	• • •	3	6
b	PLUMOSA	•••	•••	•••	2			•••	•••	•••		2	6
b	Duffii (see illustration)	•••	•••	•••	•••	•••		Duke	of Yo	rk Isl	land.	1	6
	A very distinct and remar a very peculiar character, a le illustration.	kable ind e	fern, of xceeding	a clos gly orr	e tufted namenta	l habit ıl. Th	of grov ey atta	vth, prodin a he	ducing eight o	nume f abou	rous : it 2 f	fron eet	ds —
	ACUTA A splen	 did v	 variety, v	 vith la	3 arge gra	 cefully-	droopii	Trop.	Ameri	ca.	•••	2	6



NEPHROLEPIS RUFESCENS TRIPINNATIFIDA.



NIPHOBOLUS HETERACTIS.



NIPHOPSIS ANGUSTATUS.

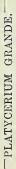
NEPHROLEPIS—Continued.		Avera		ht.			ν,				
EXALTATA, syns., Aspidium	e., Nephrodi		feet 3			Trop.	Amer	ica.		s. 1	
BARTERII		•••	$1\frac{1}{2}$	•••	•••		•••	•••	•••		
b pectinata, syn., Aspidium	p	,	$1\frac{1}{2}$			Trop.	Amer	ica.		1	6
PHILIPPINENSE		•••	$1\frac{1}{2}$	•••	•••	Philip	pine 1	Islands		1	6
g PLUMA			2				•••			l	0
RUFESCENS TRIPINNATIFIDA	•••		$2\frac{1}{2}$			Fiji	•••	•••	•••	2	6
UNDULATA	•••	•••	$1\frac{1}{2}$			•••	•••		• • •	1	6
ZOLLINGERIANA		•••	3				•••	•••	•••	1	0
NIPHOBOLUS, syn., Poly	ypodium										
HETERACTIS (see illustration	n)		$\frac{1}{2}$		•••	Hima	layas	•••		2	6
An interesting species, with	simple fron	ds, the	under	surface	and st	ems be	eing co	vered w	ith v	wool	lly
scales.	•										
NIPHOPSIS, syn., Polypo	dium										
ANGUSTATUS, syns., Niphol		. macr	ocarous	. N. s	sphæro	cephali	ıs. Pl	eopetis	a.,		
Polypodium a. (see illustr								rchipel		2	6
,								~			
								-355			

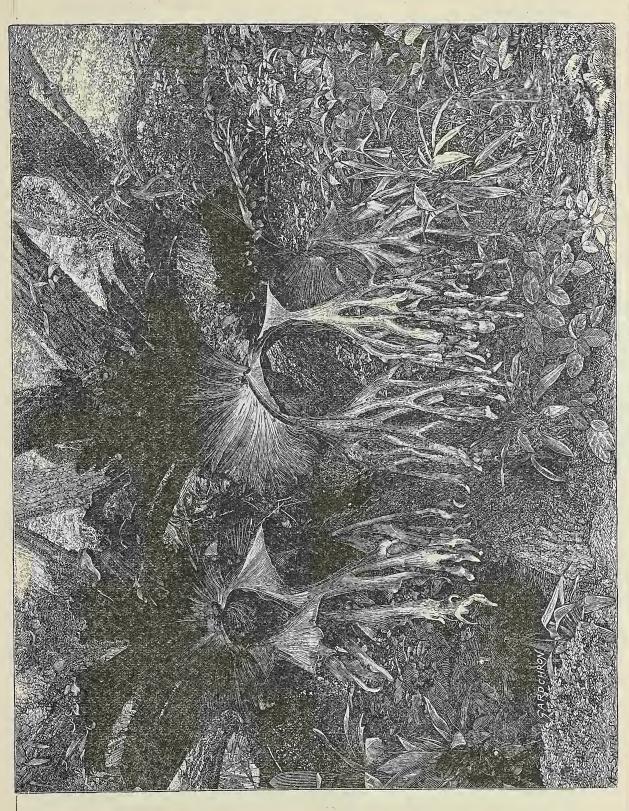


ONYCHIUM AURATUM.

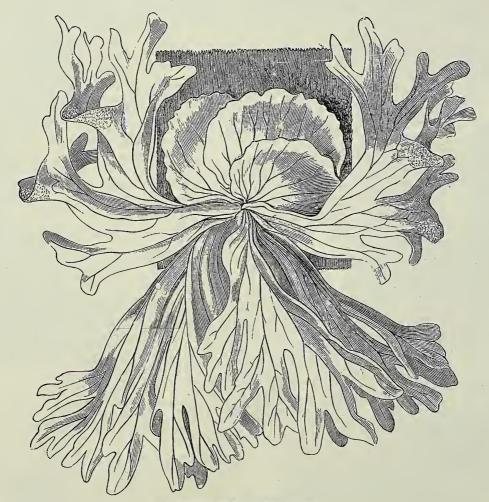
N	IOTHOCLŒNA		
	g CHRYSOPHYLLA syn., Cincinalis c 1 Trop. America		
n	A golden Fern, in appearance so like an Adiantum as to cause many to speak of it as a gmaidenhair. It will grow either in the stove or greenhouse.	olde	en
	g ECKLONIANA \ 1 South Africa pumila \ South Africa	3	6
	A rare species, with woolly fronds.		
1	$\left\{ egin{array}{lll} g & { m NIVEA} \\ incana \end{array} ight\} & { m syns., Cincinalis n.} & & & rac{3}{4} & & & { m Trop. America} & & { m A pretty little Silver Fern.} \end{array}$	1	6

4 .		STOVE	FERI	VS.						
NOTHOCLŒNA—Con	rtinued.	Avera	ge Heigh	it.		*		C	d.	- in
$\left. egin{array}{ll} g & ext{RUFA} \\ ferruginea \end{array} ight\} & ext{syn.},$	Cheilanthes f.		$1\frac{1}{2}$			Trop. Americ	ca.	s. 2	a.	,
g sinuata, syn., Ac			$1\frac{1}{2}$			Mexico	560	2	6.	
	rare in cultivation fronds, the unde	, but easy er surface be	to mar	nage eit ely cove	her in	a warm or	cold h	ouse. sing it	It	
TRICHOMANOIDES,	syn., Pteris t		$\frac{3}{4}$	•••		Jamaica	••• •	5	0	
				'P!	LATYC	ERIUM BIFO	ORME.			
P	HLEBODIUM VI	ENOSUM		POLY	PODIU	M VACCINI	IFOLI	UM.		
OLEANDRA										
g articulata		•••	1	•••	•••	S. Africa	•••		2	6
NERIIFORMIS		•••	1	•••	•••	Tropics	•••			
bg nodosa, syn., As			1	•••		W. Indies	•••	•••	2	6
OLFERSIA, syn.,	Acrostichum									
CERVINA	•**	•••	2	•••	•••	Cuba, Mexi	20	•••		
ONYCHIUM										
AURATUM	A very be	 eautiful spec	$1\frac{1}{2}$ cies, wit	 h finelv	 -cut fro	Himalayas	•••		3	6
PHEGOPTERIS			,,,,,,,							
b effusus, syn., I	-	• • • • • • • • • • • • • • • • • • • •	3	0		W. Indies			1	6
	Lastrea s., Polypo		1	•••	•••	W. Indies		•••	•	J
, , , ,	,JP					, , , makerion				





PHLEBODIUM		Average L	leight.			2.5		s.	d.
AUREUM, syn., Pol	ypodium a	3		j	Trop. Amer	ica	•••	1	0
	syn., Polypodium g.			•••	Philippines	•••	•••	1	6
c venosum, syns., F illustration)	,	½	•••	•••	Trop. Amer	tis s. rica	(see	2	6
	The foliage of	this is most	beautif	ully vein	.ed.				
PHYMATODES									
LONGISSIMA, syn.,	Polypodium l	3	•••	•••	India	•••	•••	2	6
NIGRESCENS, syns.,	Polypodium n., Poly	ypodium sac	catum 8	5ft	India, Fiji	•••	•••	2	6
vulgaris, syns., P	leopeltis phymatodes	s, Polypodiu	m p.	$1\frac{1}{2}$ ft.	Ceylon	•••	•••	2	6
cristata		$1\frac{1}{2}$	•••	•••		•••	•••	1	6

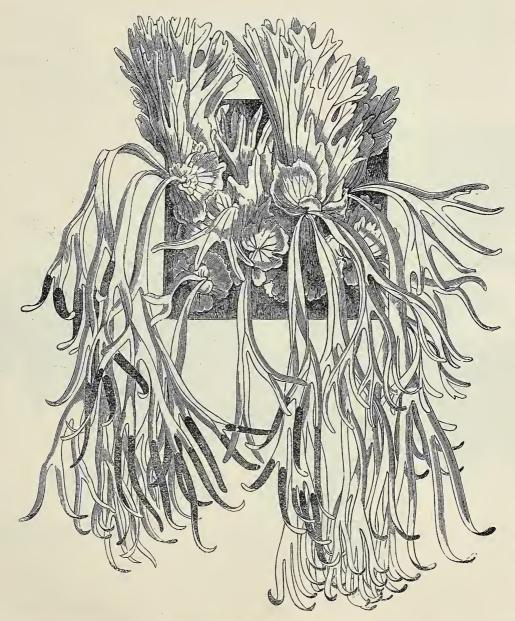


PLATYCERIUM WALLICHII.

PLATYCERIUM, syn., Acrostichum

		•											
BIFORME	•••	•••	•••	•••	•••	$1\frac{1}{2}$		•••	Malay Pen	insula	•••		
GRANDE (see	illustra	ation)	•••	•••		$1\frac{1}{2}$	Mal	ayan	Archipel. and	Austra	lia	10	6
HILLII	•••	•••	•••	•••		•••	•••	•••	Australia		•••	7	. 6
Æthiopicum	}					11			W A Grico			0	c
STEMMARIA	}								W. Africa		•••	3	ь
These	succee	d best	when	planted	on	blocks of	wood,	or pie	eces of cork su	spende	d.		
Wallichii		•••		•••	• • • •	$1\frac{1}{2}$	•••	•••	Malay Pen	insula			
WILLINCKII				•••		$1\frac{1}{5}$			Java			10	6

PLEOCNEMIA, syn., Nephrodium Average Height. feet.	
	Philippine Islands s. d. 2 6
PLEOPELTIS	
FOSSA 1 1 An attractive, curious-looking Fern, the fronds of which are deeply	Eastern Archip cut into narrow segments.
bg Juglandifolia syns., Polypodium J., P. capitellatum, P. Wallichianum, Pleuridium J 1 1	Trop. America 1 6



PLATYCERIUM WILLINCKII,

PLEOPELT:	18-0	ontinue	ed.										
PICTA		٠.,٠	•••	•••	•••	•••	1	•••	•••	S. S. Islands	•••	1	(
				An	interes	sting sp	ecies,	very des	irable	.			
										S. Pacific Islands		2	(
Αv	ery d	istinct	species,	the f	ronds j	paddle-s	shaped	, light g	reen,	and conspicuously vein	ed.		

LEURIDIUM, sy	n., Poly	ypodiu	m		$ge\ Heights$	ght.					s.	
CRASSIFOLIUM		•••		•••	2	•••	•••	Trop. Ameri	ca	i	2	
CRASSINERVIUM	•••	•••	•••	•••	2	•••	•••	Java	•••	•••	2	
DLYPODIUM												
AREOLATUM	•••	•••		•••	2	•••	••••	·	•••	•••	1	
CATHERINÆ, syn.,	Goniopł	nlebiur	n C.		2			Brazil	•••		1	
HERACLEUM	•••		•••	•••	3	•••		Java				
LEIORHIZON, syns.	., Phyma	todes	l., Plec	peltis l	. 3	•••	•••	W. Indies		•••	2	
PECTINATUM			•••		2	•••	•	Trop. Amer	ica		1	
plumosum plumula Schkuhrii		•••	•••		1		•	Brazil	•••		3	
TERMINALE	• • •	•••	•••		$1\frac{1}{2}$	•	• •••	•••	•••		2	
VACCINIIFOLIUM		•••	•••		1 2			Jamaica	•••		1	
VARIUS				•••	1/3		• • • •	W. Indies			1	



PLEOCNEMIA LEUZIANA.

PTERIS ASPERICAULIS 1½ ... E. Indies ... 1 6 GHIESBREGHTII laciniata syn., Lonchitis G. ... 3 ... Mexico, W. Indies ... 2 6 BIAURITA ARGENTEA 2 3 6

LUDENS	•••	•••	•••	• • • •	•••	$1\frac{1}{2}$	•••	•	Malayan Peninsula	3	
PUNGENS	•••	•••	•••	•••	•••	3	•••		W. Indies	2	6

PTERIS—Continued.	Aver	age Height.					
g TRICOLOR (see illustration)	•••	feet. $1\frac{1}{2}$	•••	E. Indies		s. 2	d. 6
Victoriæ		1				2	6
A beautiful, vari	egated	variety, sei	nt out 18	91.			
RHIPIDOPTERIS							
cg PELTATA, syns., Acrostichum p., A. fœnic	ulaceum	n $\frac{1}{4}$ ft.		W. Indies		2	6
GRACILLIMA	•••	$\frac{1}{3}$		••• ••• •••		2	6
SAGENIA							
CICUTARIA	1	$1\frac{1}{2}$	•••	Trop. America		1	0
IRREGULARE)		2		Polynesian Islands		5	0
LATIFOLIUM)			•••	1 ory nositin islands	•••		
SALPICHLŒNA							
SCANDENS volubilis syn., Blechnum volubilis	•••			Trop. America		2	6



RHIPIDOPTERIS PELTATA.

SELLIGUEA, syn.,	Gymnogram	ma								
CAUDIFORME		•••	•••	$1\frac{1}{2}$	•••	•••	Java	•••	• • •	1 6
POTHIFOLIA)				2			India, Java			1 6
decurrens }					-			•••	•••	. 0
STENOCHLÆNA										
b scandens, syn., Ac	rostichum s.		•••	2	•••		E. Indies	•••		2 6
A free-growing species	, with gracefu	lly-arch	ing fro	nds.	For Ro	ckwork	or Baskets it	is a fir	ie vai	riety.
STENOSEMIA										
AURITA, syns., Acre	ostichum a., F	olybotr	ya a.	1	•••		Philippine Is	slands	•••.	1 6
THYRSOPTERIS										
ELEGANS		•••	•••	•••	•••		Juan Fernan	dez	•••	



POLYPODIUM NIGRESCENS.



PTERIS TRICOLOR.

SELAGINELLAS.

	Average Height.													
							feet.						s.	d.
	ALBA SPICAT	A	•••	•••	•••	•••	‡	•••	• • •	•••	• • •	• • •		
	AMŒNA		•••	•••	•••	•••	1	•••	•••	Mexico			1	6
	AFRICANA, 5	yn., Ve	ogelli			•••	1	•••`	•••	Fernando P	o		1	6
С	ATROVIRIDES		•••	•••		•••	1	•••	•••	E. Indies	•••	•••	1	0
	BAKERIANA	•••	•••	•••	•••	•••	$\frac{1}{6}$	•••	•••	Queensland	•••	•••	0	6
	CANALICULAT			•••	•••	•••	•••	•••	•••	S. Pacific Is				
		A hand	dsome	species	of Clu	b Mos	s of sca	ndent l	nabit,	introduced 188	33.			
c	CAULESCENS	•••	•••	•••	•••	•••	1	:	•••	E. Indies	•••	***	1	0
		ARGEN	TEA	•••	•••	•••	1 .	•••	•••	Colombia	•••	•••	1	0
C		MINUS,	syn.,	Japoni	ca	•••	$\frac{1}{2}$	•••	•••	E. Indies	•••	•••	1	6



c	CÆSIA	,		•••	China	•••	•••	0	6
		A pretty trailing variety, blu	e-green	in cold	ou r.				
	CÆSIA ARBOREA								
	wildenovii altissima	(a Climbing Moss)	•••	•••	E. Indies	•••	•••	1	6
	LÆVIGATA)								

A most beautiful species. Its large branches are of a lovely metallic blue; to produce the deepest colour it should be well shaded.

SELAGINELLAS—Con	tinued.			Ave	rage Her	ight.			1	s.	d.
COGNATA }		•••	•••	•••	1	•••	•••	Borneo		1	6
CONCINNA				•••	1 6	•••	•••	Mauritius	•••		
DENSA ELEGANS	•••	•••	•••	•••	$\frac{1}{6}$	•••	•••		•••	0	6
DICHROUS	•••	•••			1		•••	Colombia, Peru	•••	1	6
EMILIANA	···		•••	•••	$\frac{1}{2}$		•••		•••	1	0
			A pret	ty "Bi	ird's Ne	st" M	ss.		,		



SELAGINELLA PERELEGANS.

c	ERYTHROPUS	•••	• • •	•••	•••	$1\frac{1}{2}$	•••	•••	Trop. America	•••	1	6
	MINUS	•••	•••	• • •	•••	1	•••	•••	•••			
	FLABELLATA	•••	•••	•••	•••	1	•••	•••	Trop. America		1	6
	FLAGELLIFERA	•••			•••	1	•		Fiji		1	0
	GALEOTTII SCHOTTII		•••	•••	•••	$-\frac{1}{2}$	•••		Mexico		1	0
	GRACILIS	•••	•••			1	•••		S. Sea Islands		1	6
	GRANDIS	•••	•••	•••	•••	1	•••	•••	Borneo		1	6

A most beautiful and distinct species, bold but not ungraceful in habit, of grass-green colour. The illustration conveys a good idea of the appearance of the plant when full grown. It should be in every collection, and if kept under a glass shade will be specially beautiful.

SE	LAGINELLAS—Cont	tinued.			Ave	rage He	ight.					s.	d.
	HÆMATODES				•••	1	•••					1	6
	INÆQUALIFOLIA		•••	•••	. • • •	$1\frac{1}{2}$		•••	Java	• • •	•••	1	0
	LEPIDOPHYLLA	1	•••			$\frac{1}{4}$	•••		Mexico		•••		
	LYALLII	•••		• • •	•••	1		•••	Madagascar		• • • .	2	6
g	PATULA SARMENTOSA	•••	•••.	•••	•••	$\frac{1}{2}$,	W. Indies			1	0
·c	PERELEGANS					$1\frac{1}{2}$	•••	•••	Ceylon			1	0

An ornamental Club Moss, allied to S. inæqualifolia, but dwarfer and denser, having pinkish red stems and dull green foliage. (Vide illustration.)



SELAGINELLA TASSELLATA.

	MOLLICEPS	•••		:	•••	•••	$\frac{1}{2}$		•••	W. Africa		1	0
	PERVILLEI	•••	•••	•••	•••	•••	1	•••	•••		• •••	1	0
	PILIFERA				•••	•••	$\frac{1}{4}$		•••	Texas			
	RUBELLA	•••	•••	•••	•••	•••	$\frac{1}{2}$		•••			1	0
	VAR	RIEGAT	A	•••	•••	•••	$\frac{1}{2}$		•••			1	0
c	RUBRICAULIS					•••	$\frac{1}{2}$	•••				1	0
	SETOSA	•••			***	•••	$\frac{1}{3}$		•••	Trop. America	• • • •	1	0
	SUBEROSA		•••		*	•••	$\frac{1}{2}$					1	0
	TASSELLATA	•••	•••	• • • •	4	•••	$\frac{3}{4}$	•••	•••	Brazil		3	6
c	TRIANGULARI	S			¥	•••	1		•••			1	6
	USTA	•••	•••	•••	•••	•••	1	•••		New Caledonia	•••	3	6

SEI	LAGINELLAS	Cont	inued.			Av	erage Heig	ght.			1			d.	
c	VICTORIÆ (se	e illust	tration	n)			1 .		•••	Borneo	•••		1	6	
	VIRIDANGULA		•••	•••	•••	•••	2	•••	•••	Fiji	•••	•••	1.	6	
С	VITICULOSA	•••	•••	•••			$\frac{1}{2}$		•••	Colombia	•••		1	0	
	VOGELII AFRICANA	•••	•••	•••	•••	•••	1	•••		Madagascar		•••	1	6	
	WALLICHII	•••		•••	•••		$1\frac{1}{2}$		***	Penang	•••	•••	1	6	
	WARSCEWICZ	II		•••	•••	•••	1 ,		•••	Trop. America	ca	•••	1	6	



GREENHOUSE FERNS.

See remarks at the beginning of Stove Plants.

The varieties enumerated in this section should have a temperature of from 40° to 60° in Winter, and 60° to 75° or 80° in Summer. Some of them will grow well in the temperature stated for Stove Ferns.

ACROSTICHUM				Ave	rage He	ight.					s.	d.
AUREUM	***	•••	•••	•••	3	•••	•••	N. America				
SQUAMOSUM	•••	•••	•••	•••	1	•••	•••	Madeira	•••	•••		
ADIANTUM												
b c ÆTHIOPICUM venustum of many	nurserie	e s }	•••	•••	$\frac{3}{4}$	•••	•••	Tropics	•••	•••	1	6
AUREUM			•••			•••		S. Africa	•••	•••		
$\left. egin{array}{c} c ext{ AFFINE} \\ Cunninghamii \end{array} ight\}$			•••	•••	1	•••	•••	N. Zealand	•••	•••	1	6
b c ASSIMILE			•••	•••	1	• • •		Australia	•••	•••	1	0
· A	beaut	iful b	asket pl	ant, of	free gr	owth a	nd grac	eful habit.				
BIRKENHEADII (F.	C.C.)	•••	•••	•••	2		•••	•••	•••	•••	3	6
A distinct	free-gr	rowin	g variet;	y raise	d in ou	r nurse	ries and	d sent out in 1	.887.			



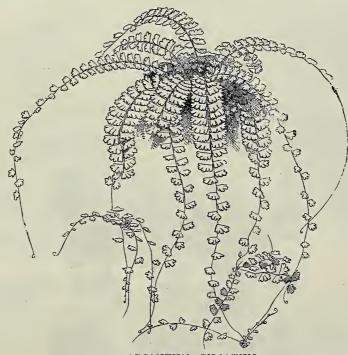
ADIANTUM CAPILLUS VENERIS DAPHNITES.

с	CAPILLUS	VENERIS		•••		3/4	• • •		Europe	9	•••	•••	0	6
			Cornubiense			•••	•••	•••	S. Eng				2	6
			DAPHNITES			$\frac{3}{4}$	• • •	• • •	•••				1	6
			Dawsonii		•••	$\frac{1}{2}$	•••	•••	•••	•••	•••		1	
			DENSUM	• • •	• • •	$\frac{1}{2}$	• • •	•••	•••	•••	• • •	•••		6
			ELEGANTISSIN	UM	•••	1	• • •	•••	•••	•••	•••	•••	_	6
			FISSUM	• • •	•••		•••	• • •	•••	•••	• • •	•••	1	~
			GRACILE	• • •	•••	$\frac{3}{4}$	•••	•••	•••	•••	• • •	•••		6
			GRANDE	···	•••	1	•••		. •••	•••		• • •	2	
			IMBRICATUM	• • •	•••	$\frac{3}{4}$	• • •	•••	•••	•••	•••	•••	3	6

A very pretty variety, producing unusually large leaflets, resembling those of A. Farleyense, much cut and imbricated.

ADIANTUM—Continued.	Aver	age Heig feet.	yht.						s.	
CAPILLUS VENERIS MAGNIFICUM		1	•••	•••	•••	•••	• • •	• - • •	2	6
———— MORITZIANUM		$\frac{3}{4}$					•••	•••	1	6
——— NATALENSE		$\frac{3}{4}$			Natal		• • • •	•••	1	6
O'BRIENIANUM		1	•••	•••	•••	•••	•••	•••	1	6
TENUÆ		$\frac{1}{2}$	•••		•••	•••	•••	•••		
CHILENSE		1			Chili		•••		2	6
h CILIATUM (see illustration)								• • •	1	0

This is a valuable addition to our maidenhair Ferns; whilst somewhat resembling A. caudatum, the fronds are both longer and wider, the pinnæ being deeply cut and fringed, the colour being a bright green. The growth is vigorous as well as elegant, and for hanging baskets it is especially desirable, as at the point of the pendent fronds young plants grow, usually sending out three fronds each, from the points of which others grow, and so on. Vide illustration. This variety is frequently misnamed Edgworthii.



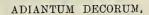
ADIANTUM CHIIATUM.

c	COLPODES	•••	•••	•••	Ţ	•••	•••	Leuador	•••	• • •	Ţ	0
	ELEGANS	•••	•••	• • •	$1\frac{1}{2}$	#···	•••	••• ′ •••		•••	1	0
	CROWDERII		•••	•••	$1\frac{1}{2}$	•••	•••			•••	1	6
c	CUNEATUM	•••	•••	•••	1	•••	•••	Brazil	• • • •	•••	0	6
	CRENATUM	•••	•••	•••	1	•••	•••		•••	•••		
	DEFLEXUM	•••	•••		1	•••			•••	4	2	6
	DISSECTUM	•••	• •••	• •	1-	• •••	•••	,	•••	•••	1	6
	ELEGANS	•••	•••		1	•••	•••			•••	1	6
		•••	•••	• • •	1	•••				•••	1	6
	A crested variety of cur	neatum,	of droo	ping ha	ibit, at	tractive	in ap	ppearance, an	d well	adapte	ed :	for
ba	sket cultivation.		•									
	LAWSONIANUM	•••	•••	•••	1	•••	•••		•••		2	6
	Mundulum		•••	•••	$\frac{3}{4}$	•••	•••		•••		1	0
	STRICTUM	•••	•••		1	•••	• • •				1	6
	— VARIEGATUM	****	•••		1		• • •		•••	•••	1	6
	DECORUM	•••	•••	•••	1	•••	•••	Andes of F	eru	•••	1	0
	A fine, har	ndsome,	and ve	ry desi	rable s	pecies.	(See	Illustration.)				
	DIGITATUM)				0							
	ÆTHIOPICUM ALATUM	•••	•••	•••	2	•••	•••	•••	•••	•••	1	6
	EMARGINATUM				1			N. America	a		1	6

AI	IANTUM-	-Continue	ł.			Aver	age Heig	ht.							
c	EXCISUM				••>		feet.			Chili		•••		s. 1	
c		MULTIFID	UM	•••	•••		1		•••			•••	•••	1	6
		NANUM	•••		•••		$\frac{1}{2}$	•••	•••					1	0
	FORMOSUM	vr	•••	•••	•••	•••	$2\frac{1}{2}$	•••	•••	New I	Holland	1		1	0
	FRAGRAN	TISSIMUM	(not f	ragrant)	•••	•••	2	•••	•••	•••		•••	•••	1	6
c	FULVUM	•••		•••	•••	•••	$1\frac{1}{4}$		•••	N. Zea	aland	•••	•••	1	0
	GLAUCOP			•••	•••	•••	$\frac{3}{4}$	•••	•••		•••	•••	•••	1	6
c	GRACILLI	мим (see i	llustr	ation)	•••	• • •	•••	•••	•••		•••	•••		1	0

This is a charming variety, particularly pleasing on account of its light and graceful appearance, produced by the number of its minute pinnules. The fronds are about 18 inches long and 8 or 9 across, the whole appearance being distinct and attractive. It is also a most valuable variety for cutting.—Vide illustration.



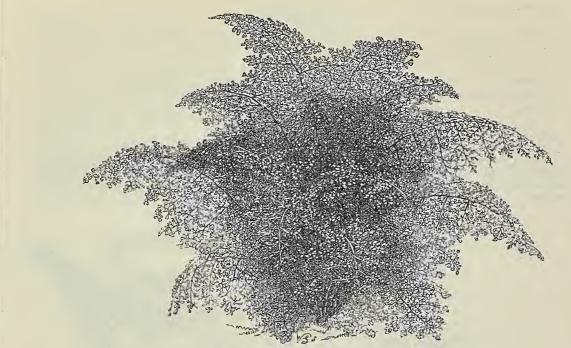




ADIANTUM DIAPHANUM, (A. SETULOSUM.) From "The Book of Choice Ferns."

HISPIDULUM (11/4			N. Zea	land			0	6
c pubescens	•••	•••	•••	•••	• 4	•••	•••	211 1200		•••	•••	Ů	Ü
HISPIDULUM FULVUI	м		•••	•••	1	•••	•••	•••	•••	• • •	•••	0	6
c TENELI	UM	•••	•••		$\frac{1}{4}$	•••	•••	N. Zea	land	•••	•••	1	0
Hodgkinsonii	•••	•••		•••	$1\frac{1}{2}$	•••	•••		•••	•••	•••	2	6
LAMBERTIANUM)	•••				1							3	6
FAULKNERII }	•••	•••	•••	•••	•	•••							
Legrandii			• • •	•••	1	•••	•••	•••	• • •	•••	•••	1	0
LUDDIMANNIANUM				•••	•••							5	0

This is a handsome Fern, possibly a variety of Adiantum capellus veneris, but of strong branching habit, with peculiar wedge-shaped pinnules, very ornamental and free growing. Was sent out by us in 1886. In the *Gardeners' Chronicle* of September 5th, 1885, the late Mr. Moore gave a full description of it, concluding his remarks with "We regard it as one of the best of the ornamental group of Maidenbairs."



ADIANTUM GRACILLIMUM.





ADIANTUM—Continue	d.			Aver	age Heig	pht.						s.	d.
MONOCHLAMYS	•••	•••	• • •	••••	1	•••	•••	Japar	1	•••	•••	2	
PACOTTII		•••	•••		1	•••	•••	•••	•••	•••	•••	0	6
	This variety is of exceedingly dense habit, the pinnules overlapping each other to an extent that is most uncommon, thus giving the plant a very striking appearance.												
d palmatum	•••	•••			2	•••		Peru	•••		•••	5	0
A very handsome a			species	owing	to the	large s	size of	the pini	nules	and the	e leng	gth	of



ADIANTUM TINCTUM.

a	l PEDATUM A mericanum					$2\frac{1}{2}$			N. Americ			1	0
s.	A most lovely spe ove or Greenhouse or	cies;	the foli	age is <i>Vide</i> il	pale gre	een, ve	ery grac	eful, aı	nd attractive.	It is	suital	ole :	f r
~	are are discourse and a			1000 11	I CADOL WOL	011.							
	PELLUCIDUM			•••		$1\frac{1}{2}$				•••		1	6
	PENTAPHYLLUM	***	•••	•••		$\frac{3}{4}$						1	0
C	RENIFORME	• • •			•••	34		•••	Madeira	•••			
	ROCHFORDII					1						1	6

. AD	IANTUM—Co	ontinued	l.			Averag	ge Heig feet.	ht.					S.	d.
	ROSEUM	•••	•••	•••	•••		1 2	•••	•••		•••		ĩ	6
	As its name	indicat	tes, the	fronds	of this	s dwarf	variet	y, when	n young	g, are of a love	ely rosy	tint.		
С	RUBELLUM	•••		•••	• • •	•••	1	•••		Bolivia	•••	• • •	2	6
	The fronds o		Fern c	ome up	with,	and for	some	time r	etain, a	ı beautiful ruk	by tinge	, grac	dual	lly
	DIAPHANUM) SETULOSUM)	}	•••		•••	•••	$\frac{3}{4}$	•••		Norfolk Isla	ınd	•••	1	0
	TINCTUM	•••	•••	•••	•••	• • •	1	• • •	•••	Trop. Amer	ica	•••	1	6
	A pretty	variet	y, whi	ch, like	A. rub	ellum,	sends	up its	young	fronds beautif	ully tin	ted.		



ADIANTUM WILLIAMSII.

VEITCHII					•••	1			•••	•••	•••	• • •	2	6
VENUSTUM		•••				1		•••	Hima	layas		• • •	2	6
WALTONII	•••	•••				1					•••		2	6
DI	FFUSU	м			•••	1		•••	•••				3	6
WILLIAMSII														
. A 1	fine gr	owing s	species	of Ma	idenhai	r, sligh	tly gol	den un	derneath	the fi	ronds.			
LEURITOP	TER	IS												

AL

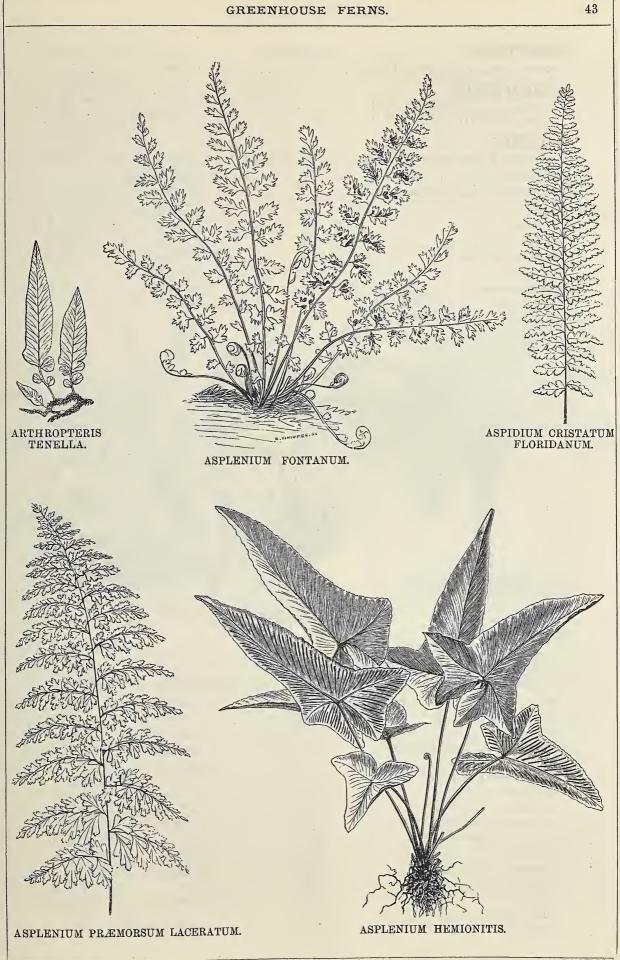
MEXICANA, syn., Cheilanthes pulveracea	1	•••	•••	Mexico	•••	•••	2	6 ~
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ALSOPHILA	(Tree	Ferns	3)		Aver	age Hei	ght.			1. 1	s.	d,
ATRO-VIRENS		•••	•••	•••		•••	•••	. ••• .	Brazil			
AUSTRALIS	• • •	•••	•••		•••	•••	•••		Australia	•••	5	0
EXCELSA	•••	•••		•••			•••	•••	Queensland	•••	2	6
PRUINATA		•••	• • •		•••	•••	•••	•••	Trop. America		5	0
REBECCÆ	•••	•••	•••	•••	•••	•••	•••	•••	Queensland	•••	7	6
Van Geerti	Ι	•••	•••	•••	•••	•••	•••	•••	,	•••	3	6

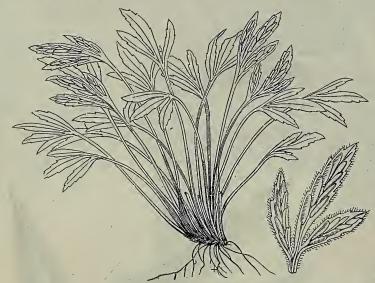


ALSOPHILA REBECCÆ.

ANAPELTIS	, syns.	, Pleon	veltis,	Polypo	dium							
c LYCAPODIOII	DES	•••	•••	•••	•••	$\frac{1}{4}$	•••	•••	W. Indies	•••	1	0
	SALICI	FOLIA	•••	•••	•••	$\frac{1}{3}$	•••	•••	Central America	•••	1	0
c NITIDA	•••	•••	•••	•••	•••	$\frac{1}{3}$	•••	•••	Honduras	•••	1	0
c sqamulosa	•••	•••	•••	•••	•••	$\frac{1}{4}$	•••	•••	Brazil	•••	1	0
ANEMIA												
Dregeana	•••		•••	•••	•••	1	•••	•••	S. Africa	•••		
VILLOSA	•••	•••	•••	•••	•••	1	•••	<i>i</i>	Brazil	•••	2	6
ANEMIDIC	TYON	1				16						
c phyllitidis	s, syns.,	Anem	ia p.,	A. fraxi	nifolia,	Osmui	nda p.	$1\frac{1}{2}$ ft.	Trop. America		1	0
	TESSE	LLATA	,	•••		$1\frac{1}{2}$	***			•••		



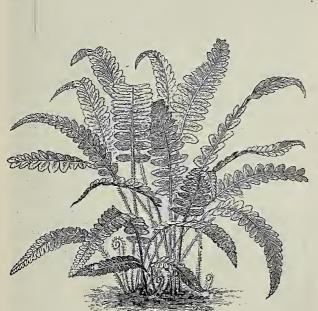
A	NGIOPTER	RIS				Ave	rage Hei	ght.					8.	d.
	EVECTA, syns	s., Poly	ypodiu	m e., I	Danæ e	·	7	•••	•••	Ceylon	•••	•••		
A	RTHROPT	ERIS	5											
C	filipes sy	ns. {	Polyp	odium "	t. }	•••	$\frac{1}{3}$	•••	•••	New Zealand	•••		2	6
A	SPIDIUM				,									
	CRISTATUM H	LORIE	ANUM,	, syns.,	Lastr	ea c. F.,	Nephr	odium	c. F. 1	l½ Florida	•••		1	6
	MACROPHYL	LUM	•••	•••			$1\frac{1}{2}$		•••	Trop. Ameri	ca	•••		
•	MOHRIOIDES,	syn.,	Polysti	ichum	m		1			N. America	•••	•••	3	6
	PATENS			•••	•••	•••	$1\frac{1}{2}$	•••	•••	N. America	•••	•••	2	6
	PILOSUM	•••	•••	•••	•••	•••	1		•••	S. Europe	•••	•••	2	6
	PUNGENS	•••	•••	•••	•••		$1\frac{1}{2}$	•••	•••	S. Africa	•••	•••	3	6
	RIGIDUM ARG	UTUM	•••	****	•••	•••	1			N. America	•••		1	6
	TENERUM			•••	•••	•••	2		•••	Queensland	•••	•••		,
	UNITUM GLAB	RUM	•••	•••	•••	•••	$1\frac{1}{2}$	•2•	•••	N. America	•••	•••	1	6
	VARIOLOSUM	•••	•••	•••	•••	•••	2	•••	•••	India		• • •	1.	6

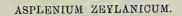


ASPLENIUM SEELOSII.

A	SPLENIUM	I	<i>3</i> .										
	AFFINE		***	• • •	•••		$1\frac{1}{2}$		•••	S. Africa		2	6
	ALTERNANS Dalhousiæ	}- •.	*			• • •	$\frac{1}{2}$		•••	E. Indies			. 1:
	ANGUSTIFOLI	UM	•••		•••	•••	$1\frac{1}{2}$		•••	N. America		1	0
	ANISOPHYLLU	M			•••	٠,.	$1\frac{1}{2}$	•••		S. Africa		3	6
	ATTENUATUM	•••	•••	•••	•••	•••	$\frac{1}{2}$			N. S. Wales	•••	2	6
	AUSTRALASIO	UM	(see illus	stratio	n)		3			Australia		2	6
	BIFOLIUM diversifolium	}	**7	•	•••	ē	3		•••	Hispaniola		0	6
	BRACHYPTERO	ON (•••		1	•••		W. America		3	6
	BRADLEYII	••.	•••	•••			$\frac{1}{2}$			N. America	•••`		
	BULBIFERUM		•••			••	3	•••	• • •	N. Zealand		1	0
	Co	LEN	SOII	•••		•••	$1\frac{1}{2}$	•••				1	0
	CAUDATUM	•••	•••	•••	•••	•••	4	• • •	•••	Polynesia		2	6
c	Colenson			•••	•••		$1\frac{1}{2}$	•••	•••	N. Zealand			
	CONSIMILE	•••	•••	•••	•••		1	•••		Chili		3	6.
	CUNEATUM	•••	,			•••	$1\frac{1}{2}$		•••	S. Africa	•••	3	6
	DIMORPHUM diversifolium)				•••	· 1½			Norfolk Island			

AS	PLENIUM—C	ied.			Aver	Average Height.									
	EBENEUM polypodioides	}		•••	•••	•••	1	•••	•••	N. America		•••	s. 1	0	
	EBENOIDES	•••	•••	•••	•••	•••	$\frac{1}{2}$		•••	N. America					
	FALCATUM	• - •	•••		•••	•••	1	•••	•••	New Zealan	d	•••			
c	FERNANDEZIA	NUM	•••	•••	•••	•••	$\frac{3}{4}$	•••	•••	Colombia	•••	•••	1	0	
	FISSUM	•••	•••	•••	•••	• • •	$\frac{1}{2}$	•••	•••	S. Europe	•••		2	6	
b	FLABELLIFOLI	UM	•••	•••	•••	•••	$\frac{3}{4}$	•••	•••	Australia	• • •	•••	1	6	
		R	ICHARDS	ONII	•••	•••	1/2	• • •	•••		• • •	•••	1	6	
b	flaccidum donntites	syn.,	Cænopt	eris, f	•••		$1\frac{1}{2}$	•••		N. Zealand		•••	2	6	
c	fabianum FŒNICULACEU	JM }	•••	•••	•••	•••	2	•••	•••	Mexico		•••	1	0	
c	$\left. egin{array}{l} FONTANUM \\ Hallerii \end{array} ight\}$	(see	illustra	tion)	•••	•••	$\frac{1}{2}$			Europe	•••	•••	1	6	
	,													, i'll	







BLECHNUM BRAZILIENSE. (From "The Book of Choice Ferns.")

									and the second s			
	GEMMIFERUM	•••	•••	•••	•••	$1\frac{1}{2}$	•••		S. Africa	•••	.3	6
	GRACILE	•••			• • •	1	•••		S. Africa	•••	3	6
	$\left.\begin{array}{c} { ext{HEMIONITIS}} \\ {palmatum} \end{array}\right\}$ (see	illust	ration)			1		•••	S. Europe	•••	2	6
	HEMIONITIS CRISTAT	UM	•••	•••	•••	1	•••	•••	***	•••	2	6
	HILLII		•••	•••	•••	$1\frac{1}{2}$	•••	•••		•••	3	6
	LAXUM PUMILUM	•••	•••		•••	$1\frac{1}{2}$	•••	• • •		•••	1	6
	LUCIDUM, syn., Dipl	azium	ı l.	•••		2	* * *	•••	New Zealand	•••	2	6
	LUNULATUM var. br	achyo	tus	•••	•••	1	•••	•••	S. Africa	•••	2	6
	Lyalli	•••			•••	$\frac{3}{4}$	•••	•••	New Zealand	•••	2	6
b	MACROPHYLLUM } nitens	•••	•••	•••	•••	2			Mauritius			
	MAGELLANICUM	•••	•••	•••	•••	1		•••	S. America			
	MONANTHEMUM	• • •	•••	•••		1			S. Africa		1	6
	NIPONICUM					1			Japan		2	6
	OBTUSATUM			•••		1	•••		New Zealand		2	6
	PALEACEUM					1			Trop. Australia			
	PARVULUM				•••	$\frac{1}{2}$		•••	N. America	•••		
	PETRARCHÆ			•••		$\frac{1}{6}$	•••	•••	S. Europe	•••		
	PINNATIFIDUM		•••		•••	$\frac{1}{2}$	•••	•••	N. America	•••		

A	SPLENIUM—	Continue	d.			Aver	age H	eight.						1
	PRÆMORSUM					•••	feet. $1\frac{1}{2}$	•••	•••	Mauritius	•••		3	d. 6
		CANARI			strati	 on)	$1 \\ 1\frac{1}{2}$	•••	•••	•••	•••	•••	$\frac{2}{2}$	6 6
(RESECTUM		•••	• • • •		•••	1	•••	•••	Mauritius			2	6
	RUTÆFOLIUM	í	•••	•••	• • •		1	•••	•••	S. Africa	•••	•••	1	6
	SEELOSII				•••	•••	$\frac{1}{6}$	•••	•••	Tyrol	•••	•••		
	SERRA				• • •		$1\frac{1}{2}$	• • •	•••	Brazil	•••		2	6
	SERRA NATA	ALENSIS	(new)	•••	•••	•••	•••		Natal	• • •	•••	5	0 .
	reclinatum }	•••		•••	•••	•••	1	***		Tropics	•••	•••	1	6
	THUNBERGII			•••	•••	•••	1	•••	•••	S. Africa	•••	•••		
	UMBROSUM, S	yn., All	antod	lia u.	•••	•••	3	•••	• • •	Madeira	•••	•••	1	6
	VIVIPARUM	•••	•••	•••	• • •	•••	$1\frac{1}{2}$	•••	•••	Mauritius	•••	•••	2	6
	ZEYLANICUM	•••	•••	•••	•••	•••	L	•••	•••	Ceylon	•••	•••	2	6
A7	HYRIUM													
d	GORINGIANU			•••	•••	•••	$1\frac{1}{2}$	•••	•••	Japan		•••	1	6
	LAXUM, syn.,	Asplen	ium a	aspidioi	des	•••	2^{-}	•••	•••	Cape Colony	• • •	• • •	2	6
BA	LANTIUM	[
	culcitum, sy	n., Dic	ksonia	a c.	•••	•••	3	•••	•••	Azores	•••	•••	5	0

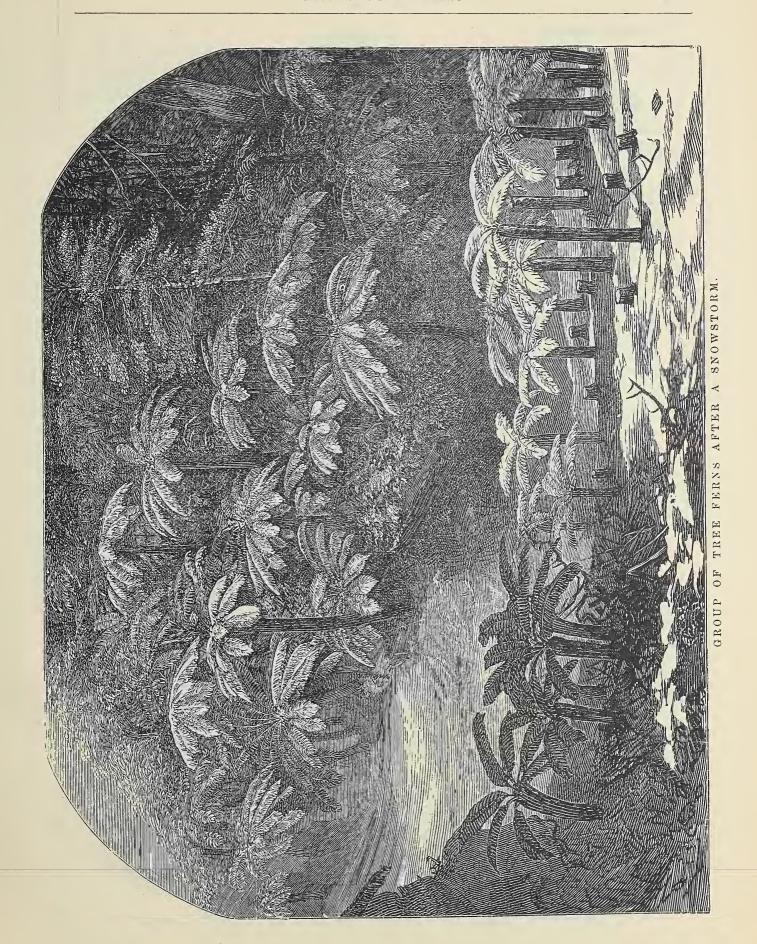




CAMPTOSORUS RHIZOPHYLLUS.

CHEILANTHES CLEVELANDII.

BI	ECHNUM											
	ATHERSTONII				1			S. Africa				
	Braziliense (Tree Fern)							Brazil		•••		
	CARTILAGINEUM				$1\frac{1}{2}$	•••	• • •	Australia	• • •		1	6
	CORCOVADENSE (Tree Fern)	·	• • •	• • •	•••	•••	•••	Brazil	• • •		1	6
ь	GLANDULOSUM	•••	•••	•••		•••	•••		•••	•••	2	6
0	CRISTATUM	•••		•••	2	•••	•••	Brazil	• • • •	•••	_	6
	HASTATUM		~••		1	•••	•••	 Chili	• • •	•••	2	6
b	OCCIDENTALE)	•••	•••	•••		•••	•••		• • •	•••	Т	0
		•••	•••	•••	$1\frac{1}{2}$	•••	•••	Brazil	• • •		2	6
	PLATYPTERA, syn., Lomaria	platy	ptera	(Tree	Fern)	•••	•••	***		•••		
b	POLYPODIOIDES	•••	•••	•••	$1\frac{1}{2}$	•••	•••	Brazil	•••		1	0
	SERRULATUM	• • •		•••	1	• • •		N. America				



BOTRYCHIUM			Aver	age Heig	yht.				s.	d.
MATRICARIÆFOLIUM	•••	•••	•••	$\frac{1}{2}$		•••	N. America	•••	1	6
TERNATUM	•••	•••		$\frac{1}{2}$	•••	•••	N. America	•••	1	6
Virginicum			• • •	$\frac{3}{4}$	•••	•••	N. America	• * •	1	6
BRAINEA (Tree Fern)										
insignis	•••	•••	•••		•••	•••	Hong Kong	2 • •		
CALLIPTERIS										
SYLVATICA, syns., Asplen	ium acu	minat	um, Di	plazium	a., D.	. sylvat:	icum, 3ft., E. Indies	•••	1	0
CAMPTOSORUS (The V	Walking	Leaf	Fern)							
RHIZOPHYLLUS, SYNS., AS	plenium	r., Sc	olopend	lrium r.	, ½ft.	•••	N. America	• • • •	1	0
CETERACH										
AUREUM	•••	•••	•••	1		•••	Madeira	•••		



DAVALLIA CANARIENSIS.

CHEILANTHES											
ALABAMENSIS			•••	$\frac{3}{4}$	•••	•••	N. America	• 60	٠	5	0
Californica, syn	., Hypolepis	C	•••	•••			California		•••	2	6
A	beautiful va	ariety, w	rith smal	l brig	ht green	, triar	gular fronds.				
Capensis, syns.,	Adiantopsis (C., Hypo	olepis C.	$\frac{1}{2}$	•••	•••	S. Africa	• • •	•••		
CLEVELANDII (see	Illustration)	•••	1		•••	N. America	•••		3	6
Cooperæ		•••	•••	•••			N. America		•••		
EATONII		•••	•••	•••			N. America			2.	6
ELEGANS			•••	$1\frac{1}{2}$	•••	•••	Trop. America	ca	•••	2	6
FARINOSA			•••	1	•••	•••	E. Indies	•••	•••	2	6
FENDLERII			•••		•••	••.	N. America				
GRACILLIMA			•••	4		•••	California		•••	2	6
$\left. egin{array}{l} ext{HIRTA} \ ext{\it Ellisiana} \end{array} ight\} ext{syns.} \left\{ ight.$	Myriopteris Nothoclœna	h. }	•••	1		•••	S. Africa	. 	•••	1	6
LEUCOPODA		•••	•••	$\frac{3}{4}$	•••	•••	N. America	•••	•••		
LINDHEIMERII		800	•••		•••	•••	N. America	•••			



Ē

CHEILANTHE	S—Con	tinued.			Aver	age He	ight.						
MICROMERA						feet.					s: 2	d. 6	
	•••	•••	•••	•••	•••	1/3	•••	•••	•••	•••		-	
MICROPHYLI	LA	•••	•••	•••	•••	$\frac{3}{4}$		•••	N. America	•••	2	6	
MULTIFIDA	•••	•••	•••	•••	•••	1		•••	S. Africa	•••	2	6	
MYRIOPHYLI	LA	•••	•••	•••	•••	1	•••		Trop. America,	India			
fragrans									~				
odora)	•••	•••	•••	•••	• 6 2	$\frac{1}{2}$	•••	•••	Switzerland	• • •			
PULCHELLA	•••	•••	•••	•••	•••	$\frac{1}{2}$	•••		Teneriffe				
SIEBERII)						_							
Preissiana	•••	•••	•••	•••	•••	1	•••	• • •	N. Zealand	•••			
TENUIFOLIA	•••		•••	•••		1	•••		N. Zealand				
TENUIS	•••	•••		•••		1		•••	Trop. America	•••	2	6	
TOMENTOSA	•••	•••		•••		1			Mexico	•••	2	6	
VESTITA, SY	ns., No	thoclœ	na v., I	Myriop	teris v.	$\frac{3}{4}$	•••	•••	N. America		1	6	
VISCIDA	•••	•••			• • •	$\frac{1}{2}$	•••	•••	N. America	•••			
VISCOSA	•••	•••	•••	•••	•••	1	•••	•••	Trop. America		2	6	
WRIGHTII	•••	•••	•••	•••	•••	$\frac{3}{4}$	•••		N. America				



DAVALLIA TENUIFOLIA VEITCHIANA.

CIBOTIUM (Tree Ferns), syn., Dicksonia

BAROMETZ) glaucescens	(Not	a Tree	Fern)		•••	9			China	•••	•••	2	6
PRINCEPS, ST	yn., C y	athea 1	р. ,	•••		•••	•••	•••	Mexico	•••	•••	3	6
REGALE	•••	•••	•••	•••	•••		, • • •	•••	Mexico	•••	•••	3	6
SCHIEDII	•••	•••	•••	•••	•••	•••	•••	•••	Mexico	•••	•••	3	6
SPECTABILE	•••	•••	•••	• • • •	•••	•••	•••	•••	Guatemala	•••	•••	3	6

CYATHEA	(Tree	Ferns)			Aver	age Heig	ght.					s.	d.
DEALBATA			•••					• • • •	N. Zealand	• • •		3	6
Dregei			•••	·	• • •		•••		Africa			5	0
MEDULARIS		•••	•••			.,.			N. Zealand	• • •	•••		
PRINCEPS,	syn., Ci	botium	р		•••			• • •	Mexico	•••			
Voungu										•		3	6



DAVALLIA HEMIPTERA. SYN., DAVALLIA REPENS.

CYRTOMIUM

c caryotidium, syn., Aspidium c. 1½ Natal 1 (——— Attenuatum 1½ E. Indies 1 (c falcatum, syn., Aspidium f., Polypodium f. 1½ Japan 1 (Anomophyllum of Fortuneii Orientale syn., Aspidium f. 1½ Japan 1 (Intermedium 1½ 1½ 1 1 Juglandifolium, syn., Aspidium J. 1 N. America 2	0 1	TOTOTITE												
c falcatum, syn., Aspidium f., Polypodium f. $1\frac{1}{2}$ Japan 1 Anomophyllum c Fortuneii syn., Aspidium f. $1\frac{1}{2}$ Japan 1 Oriextale intermedium $1\frac{1}{2}$ 1	c	CARYOTIDIUM, Syn	., Asp	idium c.	•••		$1\frac{1}{2}$		•••	Natal		•••	1	0
ANOMOPHYLLUM c FORTUNEII syn., Aspidium f $1\frac{1}{2}$ Japan 1 c Orientale Intermedium $1\frac{1}{2}$ 1							$1\frac{1}{2}$	•••	•••	E. Indies			1	0
c Fortune syn., Aspidium f $1\frac{1}{2}$ Japan 1 Orientale Intermedium $1\frac{1}{2}$ $1\frac{1}{2}$ 1	С	FALCATUM, syn., A	Aspidiı	ım f., Poly	podiun	n f.	$1\frac{1}{2}$	•••		Japan		• • •	1	0
Orientale $\begin{pmatrix} & & & & & & & & & & & & & & & & & & $		ANOMOPHYLLUM)												
4			syn.,	Aspidium	f.	•••	$1\frac{1}{2}$	•••	•••	Japan	•••	•••	1	0
Juglandifolium, syn., Aspidium J 1 N. America 2		INTERMEDIUM	•••	•••	•••	•••	$1\frac{1}{2}$	•••	•••		• • •		1	6
		Juglandifolium	, syn.,	${\bf Aspidium}$	J.	•••	1		•••	N. America	•••	•••	2	6

CYSTOPTERIS	Aver	age He	eight.				q	d
d bulbifera, syn., Aspidium b., Po	lypodium b.	1		•••	N. America	·	1	0
					N. America			
DAVALLIA								
bc BULLATA (The Squirrel's Foot Fer.	n)	$\frac{3}{4}$			E. Indies		1	6
c Canariensis (The Hare's Foot Fo	ern)	11			Canary Islands		2	6
c ——— PULCHELLA		$1\frac{1}{2}$		• • •			. 2	6
$\left. egin{array}{c} bc \end{array} ight. ext{HEMIPTERA} \\ ext{REPENS} \end{array} ight\} ext{syn., Acrophorus h.}$		1			Ceylon, Java	•••	2	6
A pretty dwarf-growing	species, well	adapt	ed for I	Hangin	g Baskets or Cases.			



DAVALLIA MARIESII.

LAWSONIANA	• • •					1					 1	6
LINDLEYANA	•••					1			Java		 2	6
Lorrainii	• • •					1	•••		Malay Penir	nsula	 1	6
MARIESII						$\frac{3}{4}$			Japan		 1	6
		A	very be	e autiful	variet	y, with	finely-	cut fro	nds.			
	TATA		•••			$\frac{3}{4}$			Japan		 2	6
MOOREANA }	•••	•••	•••		•••	3		•••	Borneo		 2	6

A splendid large-growing kind, fine for Baskets and for Exhibition purposes.

DAVALLIA—Continued.		age Heigh					s.	d.
$\left. egin{array}{c} c \; \operatorname{Nov}_{E} \; \operatorname{Zealandl}_{E} \\ \mathit{hispida} \end{array} ight\} ext{syns.} \left\{ egin{array}{c} \operatorname{Microlepis} \\ \operatorname{Acrophoru} \end{array} ight.$	s h.	$\frac{3}{4}$	•••	•••	New Zealand	•••	1	0
PYXIDATA	•••	2	•••		Australia		2	6
TENUIFOLIA, syn., Odontosoria t		3			Malayan Archipel.			
STRICTA		2				•	2	6
VEITCHIANA	•••	2		•••			3	6
A most lovely variety, with finely-cu	t, light	t, gracef	ul, dro	oping f	ronds.—See illustrat	ion.		
Tyermannii	•••	1 .	•••	•••	China	•••	1	6



DENNSTÆDTIA,	syn., Die	ksonia Si	tolobiur	'n						
CICUTAREA TENERA	٠ ٠.		•••	3	•••		Trop. America			
DAVALLIOIDES									2	6
—————YOUNG	II (see illi	ustration)	•••	6	• • •		Australia			
A fine Fern from devoid of coarseness; is	Australia is a rem	a; its fro arkably or	nds, th	ough tal pl	large, a ant, espe	re min	nutely sub-divided, for rockwork.	and u	ttei	ly
PAVONII, syn., Dicks										
d punctilobula, syns	·{Dickson	nia pilosiu punctil	obula)	2		•••	N. America	•••	1	0

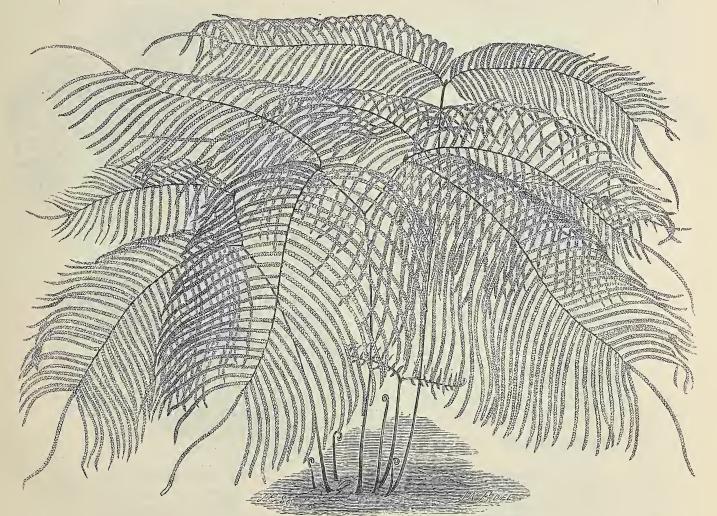
DICKSONIA (T	ree Fern	s)		Aver	age Hei	ght.					ន	d.
ANTARCTICA, SYL	n., Balantiu	ım a.	•••	• • •	•••		•••	Australia	•••	•••	2	6
FIBROSA					•••	•••	•••	N. Zealand	•••	•••	3	6
SQUARROSA		•••	•••	•••	•••	•••	•••	N. Zealand	•••	•••	3	6
DICTYOGRAM												
JAPONICA, syns.,	Gymnogra	amma	J., He	mioniti	s J. 1	$\frac{1}{2}$ ft.	•••	Japan			1	6
TAPONICA VARIE											1	6



DICTYOGRAMMA JAPONICA VARIEGATA.

DIDYMOCHL	ÆN	A											
TRUNCATULA lunulata	syns	$\cdot, \left\{egin{array}{l} ext{Dip} \ ext{Asp} \end{array} ight.$	olazium pidium	pulch trunc	nerrimu atulum	m }	3ft.	•••	Trop. Amer	ica	•••		
DIPLAZIUM,	syn.,	Aspler	rium										
DILATATUM		•••	• • • •	•••	•••	2	•••		E. Indies			2	6
HIANS	•••		•••			2			S. Africa	•••		1	6
JAPONICUM		•••	•••	•••	•	1	•••	•••	Japan		• • •	1	6
POLYPODIOIDE	es	•••	•••	•••		3			E. Indies			2	6
Shepherdii s	syn., A	spleniu	ım S.			$1\frac{1}{2}$	•••		W. Indies	•••		1	6
THWAITESII S	yn., A	spleniu	ım T.	•••	•••	$1\frac{1}{2}$	•••	•••	Ceylon	•••	•••	1	0
DISPHENIA													
GRIVELLIANA arborea	syns		hea ar podiur		C Griv	elliana	4ft	•••	W. Indies	•••	•••	2	6
DOODIA			,										
AMŒNA	•••		•••		•••	1		•••	•••			1	0
ASPERA	•••	• • •				1		•••	Australia			1	6
	IFIDA	•••	•••	•••		$\frac{1}{2}$				***		2	6
A very attrac gradually changi	ctive I	Fern, of dark gr	dwar.	f habi	t, the fi	onds fr	eely cre	ested, v	when young of	a beau	ıtiful	pir	ık,
BLECHNOIDES									~				
maxima	}	•••	•••	•••	•••	1	•••	•••	New South	Wales	•••	2	6
$\left. egin{array}{c} c \; ext{CAUDATA} \\ rupestris \end{array} ight\}$		· · · · · ·		***	•••	$\frac{1}{2}$	•••	•••	Australia		•••	0	6

DOODIA—Continued.			Ave	rage Hei	ight.					s.	d.
c CAUDATA CONFLUENS linearis	•••	•••		$\frac{1}{2}$	•••	•••	New Caledon	ia			
DIVES	•••	•••		$\frac{1}{2}$	•••		Ceylon	•••	•••	1	6
b c LUNULATA		•••		1	•••	•••	N. Zealand	•••	•••	0	6
MEDIA CRISPA		•••	•••	$\frac{1}{3}$	•••	•••	•••	• • •	•••	2	6
DORYOPTERIS, syn., Pter	ris										
SAGITTIFOLIA, Syns., Litob		s., Pte	ris s.	1		•••	Brazil		•••	3	6
Alcyonis			•••	1	•••	•••	••• . •••	•••	• • •	3	6
DRYNARIA											
PUSTULATA, syn., Pleopelti	s p.	•••	•••	1	•••	•••	N. Zealand	•••		1	0



GLEICHENIA DICARPA LONGIPINNATA.

GLEICHENIA	
DICARPA 2 Tasmania 3	
A beautiful Fern, exceedingly neat in its appearance. It is also a fine plant for Exhibition purposes, and very useful for cutting.	α
DICARPA LONGIPINNATA (see illustration) 2 Australia 5	
A new variety, very graceful and elegant, of free growth, with longer fronds than <i>dicarpa</i> particularly beautiful in appearance, and very desirable.	,
FLABELLATA 3 Australia 5	0
Mendelli (3 N. Zealand 7 (6

GLEICHENIA—Contr	inued.			Ave	rage Her	ight.						s.	д
RUPESTRIS	•••	•••	•••		3	•••	•••	N. S.	Wales	•••	•••	7	6
GLAUCE	SCENS		• • •		2	•••		•••	•••	•••	• • •	5	0
A very distinct v	ariety of	G. rup	estris.	The	fronds	are of	much	thicker	texture	aud	of a	love	ly
glaucous hue.	Ť												
SEMIVESTITA				•••	2			New (Caledon	ia	• • •	3	6
This is one of the better in a cold house its beauty interfered and is considerably h	e than in with. I	a warr	n one;	it wi	ll even	stand a	a few d	legrees	of frost	with	out h	avi1	ng
SPELUNCIÆ		•••			3			N.S.	Wales		• • •	5	0
One of the most h			s genus	s, a fir	st-class	Fern:	for exh	nibition,	decora	tion,	or cu	ttin	ıg.





GLEICHENIA SPELUNCIÆ.

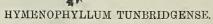
GONIOPTERIS									
CRENATA			1	• • •	***	W. Indies		1	6
PENNIGERUM	•••		$1\frac{1}{2}$	•••		New Zealand		1	6
UNITA, syn., Polypodium	u		2			S. Africa		2	6
GYMNOGRAMMA									
LEPTOPHYLLA		•••	$\frac{1}{3}$		•••	Jersey			
OCHRACEA (see illustration	on)		1		•••	Trop. America	•••	1	0
Тотта		•••	1	•••		Madeira		2	6
TRIANGULARIS		· · · · ·	•••	•••	•••			1	6
A beau	tiful dwarf,	half-hard	ly, golde	en Feri	a from	California.			
VESTITA	•••		1		•••	India		3	6
HEMIONITIS									
CORDATA									
$\left. egin{array}{c} cordifolia \ sagittata \end{array} ight\} \dots \dots$	•••	•••	1	•••	•••	E. Indies		1	6
PALMATA (see illustration	n, page 18)	•••	$\frac{3}{4}$	•••		W. Indies		1	6
HYMENOPHYLLUM (F	Filmy Ferns)							
ABRUPTUM		•••	17 T2	•••	•••	West Indies		5	0
ÆRUGINOSUM		•••	$\frac{1}{2}$	•••	•••	New Zealand			6
ASPLENIOIDES	•••	,	$\frac{1}{2}$	•••	•••	West Indies		10	6

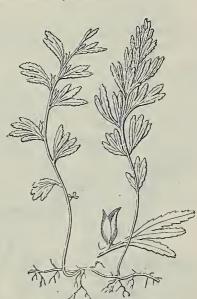
YMENOPHYLLUM—	Continued		Aver	age Height.			s.	
ATTENUATUM }			•••	$\frac{1}{2}$		Chili	10	
MAGELLANICUM 5				1		N 7 . 1 1		
BIVALVE	•••	•••	•••	1		New Zealand	···	
CATHARINÆ	•••	•••	•••	$\frac{1}{2}$ $\frac{3}{4}$		Jamaica	7	
CAUDICULATUM CHILOENSE		•••	****	1	•	Chiloe *	~	
CHILOENSE	•••	•••	•••		• •••		0	
PLUMIERII			•••	$\frac{1}{3}$	•	West Indies	5	
CD CCD L MITTE				$\frac{1}{2}$		New Zealand	5	
CRISPUM	,		•••	$\frac{\overline{2}}{4}$		West Indies		
CRUENTUM		•••	•••	$\frac{1}{2}$		Chili		
DEMISSUM		•••	•••	$\frac{1}{2}$		Lord Howe's Isla	nd 3	
DEMISSUM				ı		New Zealand	2	
NITIDUM	•••		•••	$\frac{1}{2}$		New Zealand	1	
DICHOTOMUM			•••	1 3		Chili	•••	
								
The state of the s			X TO THE RESERVE TO T	en.		a Bra		
	W. T.	Sec. 1	No.				E AMO	
	3.		ARRES S	MAGE		AND CANAL		
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AND MARKET	. /	The Water	ON PARTY.					
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	Br. Land		d					
	STATE OF THE PARTY		Week Comments					
Man Keel		No. of the last of	Zilline .					
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			. 7	Ura Esta Milla	GYM	INOGRAMMA TRIAL	NGULAR:	IS
			464					
	5//		ŽA	The same				
			_					
GYMNOG	RAMMA	OCHRAC	EA.					
YMENOPHYLLUM—				1		New Zealand	10	
DILATATUM	•••		•••	1		New Zealand New Zealand	10	
FLABELLATUM	•••	•••	•••	$\frac{1}{2}$		New Zealand	7	
FLEXUOSUM		•••	•••	$\frac{1}{2}$ $\frac{1}{2}$		Brazil	5	
FORSTERIANUM		•••	•••	$\frac{1}{3}$		Trop. America	10	
MILOOTTOTA			•••	$\frac{1}{2}$		Trop. America	5	
FUCOIDES	• • •		•••	1		West Indies	10	
HIRSUTUM				$\frac{1}{2}$		Java	10	
HIRSUTUM				9			10	
HIRSUTUM	•••		•••	$egin{array}{cccccccccccccccccccccccccccccccccccc$		West Indies	10	
HIRSUTUM HIRTELLUM JAVANICUM						Chili	10	
HIRSUTUM HIRTELLUM JAVANICUM MULTIFIDUM			•••	$\begin{array}{ccc} 1 & \dots \\ \frac{1}{2} & \dots \\ \frac{1}{3} & \dots \end{array}$		Chili West Indies	10 7	
HIRSUTUM HIRTELLUM JAVANICUM MULTIFIDUM PECTINATUM				$egin{array}{cccccccccccccccccccccccccccccccccccc$	 	Chili West Indies West Indies	10 7 5	
HIRSUTUM HIRTELLUM JAVANICUM MULTIFIDUM PECTINATUM POLYANTHOS				$\begin{array}{ccc} 1 & \dots \\ \frac{1}{2} & \dots \\ \frac{1}{3} & \dots \end{array}$	• •••	Chili West Indies	10 7	

HYMENC	PHYLLUM-	-Continu	ued.		Aver	age Heig	ght.			8.	d
SCAB	RUM		•••	•••	•••	1	•••	•••	New Zealand	 . 7	- 6
SERIC PLUM	SEUM }	•••			•••	•••	•••	•••	West Indies	 . 10	6
TRIFI elegar linear penda	re		•••	•••	•••	1		•••	Trop. America	 . 10	6
TUNI	BRIDGENSE		•••	•••		<u>1</u>	•••		Chili	 . 2	6
	ssiforme }	•••	•••	•••	•••	$\frac{1}{4}$		•••	Europe	 . 1	6
c Wils	ATERALE }			•••		$\frac{1}{6}$	***		Europe	 1	0

All Filmy Ferns require a very moist atmosphere, and a shady situation.





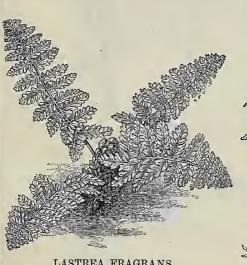


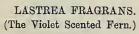
HYMENOPHYLLIM WILSONII

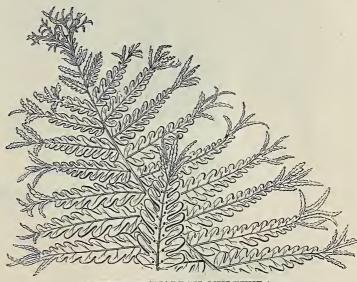
								HY	MENOPHYLL.	UM WI	LS	INC	I.
HYPOLEPI	S												
AMAURORA	CHIS		• • •	•••		2	•••	•••	Australia				
ANTHRISC		•••	• • •	•••	•••	$1\frac{1}{2}$	•••	•••	S. Africa			1	6
e Bergiana		•••	•••	•••	•••	$1\frac{1}{4}$	• • • •	•••	Cape Colony,	Natal		1	6
A very ragular; a very	re and d pretty	istinct F plant for	ern, s bask	omewha et or po	at rese	mbling ire.	a Che	eilanthes	in appearance	e, fron	ds	tria	ın-
Californ	ICA					$\frac{1}{2}$	• • •		California			2	6
b c distans	• • •	•••	• • •		•••	1			New Zealand	• • •	• • •	1	6
MILLEFOL	[A		•••	•••	•••	1	• • •	•••	New Zealand	il .	•••	1	6
REPENS	•••	•••	•••	•••	•••	3		•••.	W. Indies	•••	•••	1	0
RUGULOSA		•••	•••	• • •	•••	2		• • •	•••	•••	•••	1	6
TENUIFOL	IA	•••	• • •	•••	. •••	2	•••	• • •	New Zealand	l	• • •	1	6
LASTREA,	syn., N	ephrodi	um										
c acuminat atrovirens Shepherdi	}	•••	•••	•••		1	•••	·	N. Zealand	•••	•••	1	6
ARISTATA,	syn., Po	olystichu	ım a.	•••		1			Assam			1	()
VAR	IEGATA;	syn., Po	lyst. a	.v.					•••			1	0
ATRATA, S	yn., Cyr	tomium	a	•••		2			India			1	0
CATOPTER	on, syn.,	Nephro	dium	c		4	•••		Cape Colony	•••		1	6
CHRYSOLO	ва	•••	• • •	•••	• • •	$1\frac{1}{2}$		•••	D!1			1	6
CORUSCA			•••	•••		1			Tonne			1	0
DECOMPOS	ITA, syn	., Nephr	odium	d.	•••	1	•••	•••	New Zealand			2	6

LASTREA—Con	tinued.				Aver	ige He	ight.						,
d DECURRENS)					feet.						s.	d.
decursive-pi	nnata }	syn.,	Polypo	dium (d. p.	2	•••	•••	Japan	•••	•••	1	0
DILATATA F	OLIOSO-	DIGITAT	A	•••	•••	2	•••	•••	Azores	•••	•••	2	6
DISSECTA	•••	•••	•••	•••	•••	2	•••	•••	India	•••	• • •		
ERYTHROSO	RA, syn.,	Nephr	odium e	.	• • •	2	•••	•••	Japan		•••	1.	6
FRAGRANS,	syn., As	pidium	fragran	s	•••	$\frac{1}{2}$	•••		N. America		•••	3	6
	A pro	etty dwa	arf, viol	et-scer	ated Fe	ern, ha	ardy, ver	ry rare,	and desirable.				
FRONDOSA,	yn., Pol	lystichu	m f.	•••		$2\frac{1}{2}$	•••		Madeira	•••		3	6
c GLABELLA,				•••	•••	1	•••	•••	N. Zealand	•••		1	6
HISPIDA, SY	a., Polys	stichum	h.			$1\frac{1}{2}$	•••	•••	N. Zealand	•••		1	6
INÆQUALE				• • •		3		•••	Cape Colony				
MON	TANA			•••		2	•••	•••	Cape Colony		•••		
INVISA			•••			4			W. Indies	•••		1	6
JENMANNII	•••		•••	•••	•••	$1\frac{1}{2}$		•••	Jamaica	•••		1	6
Kaulfussi			•••		•••	2 .	•••	•••	Brazil	•••		2	6
LEPIDA				•••		1		•••		•••	•••	1	6
LUCIDA		•••	•••		•••	$1\frac{1}{2}$		•••	•••	•••	• • •	1	0
MEMBRANII	FOLIA					2		•••	India, Ceylor	1.,.		2	6
OPACA				•••		2	٠	•••	China	•••	•••	1	0
PALLIDA					•••	1			S. Europe	•••	•••	2	6
PATENS, Syr	., Aspid	lium p.		•••		$1\frac{1}{2}$	•••	•••	N. America	•••	• • •	1	6
SUP	ERBA	•••	•••	•••		2		•••		•••	•••	1	6
podophylla Sieboldii	syn.,	Pycnop	teris s.			2	•••	•••	Japan	••	•••	1	0
PROLIFICA	•••	•••			•••	1	•••	•••	Japan	•••	•••	1	0
An interes	ting ha	rdy eve	ergreen	Fern,	which	produ	uces nu	merous	buds on the f	ronds,	givir	ng t	$_{ m he}$

An interesting hardy evergreen Fern, which produces numerous buds on the fronds, giving the plant a very remarkable appearance.







LASTREA RICHARDSII MULTIFIDA.

c pubescens, syn., No	ephrod	lium p.	***	•••	1			Jamaica			1	6
QUADRANGULARIS	•••	•••	•••	•••	2			•••				
QUINQUANGULARIS		•••		•••	$1\frac{1}{2}$	•••				•••	2	6
RICHARDSII MULTIF	IDA			•••	2	•••					1	6
A fine free growing	, creste	ed Fern,	soon	makes a	speci	men plai	at, ver	y useful for dec	orativ	e purp	oses	3.
SPINESCENS	•••	•••			$\frac{1}{2}$			E. Indies		•••		
UNITA, syns., Aspid	ium u.	, Aspidi	ium s	serra, Ne	phro	dium u.	2ft.	Tropics		•••		
GLABRA, SYI				•••	$1\frac{1}{2}$	•••		N. America	•••	•••	1	6
VARIA, syn., Polypo				•••	2	•••		China	•••		1	0
					-					•••		

T.F.PTCVSTIS. svn Polynodium Average Height.	
LEPICYSTIS, syn., Polypodium SEPULTA, syns., Goniophlebium s., Polypodium s., Polypodium	s. d.
rufulum, Polypodium hirsutissimum $1\frac{1}{2}$	Trop. America
squamata, syn., Polypodium s $1\frac{1}{2}$	W. Indies 2 6
LEUCOSTEGIA, syn., Davallia	E. Indies 2 6
СНÆRОРНУLLA $1\frac{1}{2}$ d іммера, syns., Acrophorus i., Davallia i., Humata i. $1\frac{1}{2}$ ft	E. Indies 2 6
A handsome variety, with pale green fronds, prettily tinte	
PULCHRA ··· 1 1	Nepal 1 6
LINDSAYA	
LINEARIS 1	Queensland
·	
	A. Walter
With the second	
The second of th	
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	Maria de la companya
LOMARIA CILIATA.	(/
	LYGODIUM PALMATUM.
LITOBROCHIA, syn., Pteris (From	"The Book of Choice Ferns.")
AURITA, syn., Pteris a $2\frac{1}{2}$	Malay Islands 1 6
INCISA $1\frac{1}{2}$	New Zealand 1 6
Karsteniana $1\frac{1}{2}$ vespertilionis, syn., Pteris v $2\frac{1}{2}$	Trop. America 3 6 E. Indies 1 6
LOMARIA	E. Indies 1 6
C ATRINA	N. Zealand 1 0
antarctica \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
ALPINA RAMOSA $\frac{1}{2}$ ASPERA 1	2 6
A dwarf, compact species, with short, dark green fronds. It is of	creeping habit and very hardy.
c attenuata, syn., Blechnum a. (Tree Fern) 2	Brazil 3 6
Banksii ½	N. Zealand 1 6

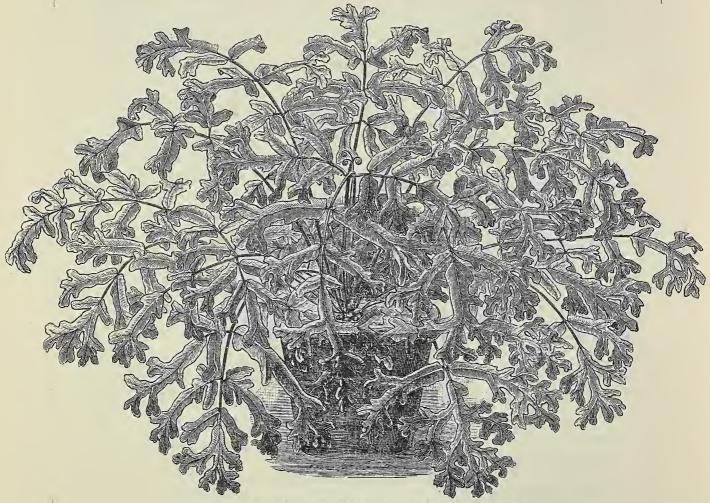
LOMARIA—Continued.	Aver	rage Height.					
BORYANA (Tree Fern)				S. Africa, Brazil	•••	s. 5	
Capensis		$1\frac{1}{2}$					
CHILENSIS	•••	3 .		Chili		2	6
CILIATA (Tree Fern). (See illustra	ation)	1 .		New Caledonia		2	6
—— MAJOR	•••	2 .				3	6
Germanii		$\frac{1}{2}$.		Chili		1	6
CYCADÆFOLIA (Tree Fern)				Chili			
Dalgairnsiæ			·· · · · · · · · · · · · · · · · · · ·	•••			
DISCOLOR (Tree Fern)				New Zealand		3	6
ELONGATA		2		New Zealand		2	6
	·			Australia		1	6
————BIPINNATIFIDA (Tree Fern	,	•••		Australia		5	0
A handsome variety, w	ith deeply-	cut plumos	se fronds, o	of drooping habit.			



NIPHOBOLUS LINGUA CORYMBIFERA.

L	MARIA—Continued.											
C	FLUVIATILIS)					1		•••	New Zealand		2	6
	rotundifolia)		A dist	inct sp	ecies, o	f attra	ctive ap	pearan	ce.			
	GIBBA (Tree Fern)	•••							New Caledonia		1	0
	CRISPA (Tree		•••		•••	•••	_ 4. •••	•••				^
	TINCTA (Tree	e Fern)	•••	•••	•••	• • •	•••	•••		• • •	1	0
$b \epsilon$	GILLIESII	• • •	*. * *		• • •	$1_{\frac{1}{2}}$	•••	•••	Chili	• • • •	2	6
	HETEROPHYLLA					•••	•••		S. Africa		3	6
	LANCEOLATA		•••			1	•••	•••	N. Zealand		2	6
	L'HERMINIERII	• • •		•••		. 1	•••	•••	Trop. America		5	0
		A mini	iature	Tree F	ern, its	young	g fronds	prettil	y tinted.			
	NUDA (Tree Fern)					•••			Tasmania		2	6
	ONOCLEOIDES	• • • •		• • • •		$1\frac{1}{2}$			West Indies			
	PATERSONII	•••			•	$1\frac{1}{2}$	٠		Australia		1	6
	PROCERA		•••			$2\frac{1}{2}$	• • • • •		N. Zealand		1	6
	PUMILA		•••	•••		$\frac{1}{3}$			N. Zealand	•••	1	0
	PUNCTULATA		•••	•••	•••	$\frac{1}{2}$			S. Africa	•••	3	6
	VULCANICA	•••				1		•••	New Zealand	•••	1	6
	ZAMIOIDES (Tree Fe	rn)	•••	•••	•••	•••	•••	•••	••• •••	•••		

L'LAVEA CORDIFOLIA, syn.,	Ceratodact	ylis Osmu		age Height. feet.	•••	Mexico		s.	d.	
LOMARIOPSIS										
нетекомокрна, s Stenochlæna l	yns., Lom heteromor	aria filifo pha	ormis, L	propinqu	ıa 	New Zealand	•••	1	6	
LYCOPODIUM										
COMPLANATUM			•••	$\frac{1}{2}$	•••	N. America	•••	2	6	
DENDROIDIUM				$\frac{1}{2}$	•••	N. America		3	6	
LUCIDULUM			•••	1	•••	N. America	***	2	6	



OSMUNDA JAPONICA CORYMBIFERA

LYGODIUM'(Climbing Fe	erns)										
d Japonicum	•••	•••						Japan	• • •	•••	1	0
A free grow which to twine it	ing Fern, oft for support.	en misr This l	named oses its	L. scan foliage	dens;	requires ater.	wire,	sticks, or other	r mate	irials	rou	nd
MICROPHYLL	UM	• • •		:				Australia	•••	•••	2	6
PALMATUM	•••			•••	•••		•••	N. America	•••	•••	2	6
	A b	eautiful	specie	s, with	light g	green pa	almate	pinnæ.				
SCANDENS				•••		•••	•••	India	•••	•••	3	6
	A handsom	ne everg	reen sp	pecies,	of free	growth	; folia	ge light green.				
MARATTIA												
ELEGANS		• • • •			6		•••	Cape Colony	•••	•••		
FRAXINIA SA	LICIFOLIA				3	•••		S. Africa	• • •	•••		

	MICROLEPIA, syn, D	Pavallia Pavallia		Ave	rage H	eight.						3
	b hirta cristata				feet.			South Sea	Islands		s. 2	d. 6
		od Form in	fuere	the Co	u+b Co	a Talan	da :					
	This beautiful creste habit of growth. The fi beautiful objects for bask	ronds droc	p in a	a char	ming r	nanner	as; it is, so that	at the plants	form	er, an excee	ding	ly
	PLATYPHYLLA, syns., I		D. lor	nchitide	ea 4	•••		E. Indies			2	6
	scabra, syns., Davalli						$1\frac{1}{2}$ ft.	Japan			2	6
		5., 2. 111	1000, 1	,,	3	•••	~2 ~~	_		•••	2	
	SPELUNCIÆ	•••	. ***	•••		•••	•••	Tropics	•••	•••	ن -	6
	strigosa, syn., Daval	lia s	•••	•••	$1\frac{1}{2}$	•••	•••	Japan	•••	•••	1	6
	MOHRIA			-		•						
	CAFFRARIA)				1			S. Africa			1	6
	THURIFRAGA 5	••	•••	•••	1	•••	•••	D. Airioa	•••	•••	1	U
	ACHILLÆF	OLIA	•••	•••	4 4	•••		••• •••	•••	•••	3	6
								*		S. Car	李和	
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							2.2	DOUBLE TO	2 (1)	2465 S.D.		****
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	PELLÆA ORNITHOPUS	BRACHYP	TERA.			****			1	第一条条条条		
1	PELLÆA ORNITHOPUS	BRACHYP	TERA.			***		*		李 张 茶茶茶		
1	PELLÆA ORNITHOPUS	BRACHYP	TERA.			***		*		《安坐关·苏·李·		
1	PELLÆA ORNITHOPUS	ВКАСНУР	TERA.			***************************************				《· · · · · · · · · · · · · · · · · · ·	The second second	
		ВКАСНУР	TERA.					PELLÆ	A TER	NIFO	LIA.	
	NEPHRODIUM	ВКАСНУР	TERA.			***			A TER	NIFO:	LIA.	
	NEPHRODIUM ATHAMANTICUM		TERA.		2	***************************************		S. Africa	A TER	NIFO	2	
	NEPHRODIUM		TERA.		2 2	***************************************			A TER	NIFO	2	6 6
	NEPHRODIUM ATHAMANTICUM				2 2 1			S. Africa S. Africa	A TER	NIFO	2	
	NEPHRODIUM ATHAMANTICUM CATOPTERON, Syn., Las CHINENSES	 strea c. 				***	•••	S. Africa S. Africa China		•••	2 1 1	6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, Syn., Las CHINENSES CUSPIDATUM, Syn., Las	 strea c. trea C.			1 1		•••	S. Africa S. Africa China India		•••	2 1 1	6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, Syn., Las CHINENSES CUSPIDATUM, Syn., Las CYATHEOIDES	 strea c. trea C.			1 1 3		•••	S. Africa S. Africa China India Sandwich I	 Islands	•••	2 1 1	6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, syn., Las CHINENSES CUSPIDATUM, syn., Las CYATHEOIDES INÆQUALE, syn., Lastr	 strea c			1 1 3 2		•••	S. Africa S. Africa China India Sandwich I S. Africa		•••	2 1 1 2	6 6 6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, syn., Las CHINENSES CUSPIDATUM, syn., Las CYATHEOIDES INÆQUALE, syn., Lastr c Molle, syn., Aspidium	strea c trea C rea i			$ \begin{array}{ccc} 1 & & \\ 1 & & \\ 3 & & \\ 2 & & \\ 2\frac{1}{2} & & \\ \end{array} $		•••	S. Africa S. Africa China India Sandwich I	 Islands	•••	2 1 1 2	6 6 6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, syn., Las CHINENSES CUSPIDATUM, syn., Las CYATHEOIDES INÆQUALE, syn., Lastr c molle, syn., Aspidium ————————————————————————————————————				$egin{array}{cccccccccccccccccccccccccccccccccccc$		•••	S. Africa S. Africa China India Sandwich I S. Africa	 (slands	•••	2 1 1 2	6 6 6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, syn., Las CHINENSES CUSPIDATUM, syn., Last CYATHEOIDES INÆQUALE, syn., Last C MOLLE, syn., Aspidium ————————————————————————————————————	trea c trea C m m			$ \begin{array}{ccc} 1 & & \\ 1 & & \\ 3 & & \\ 2 & & \\ 2\frac{1}{2} & \\ 1\frac{1}{2} & & \\ 3 & & \\ \end{array} $		•••	S. Africa S. Africa China India Sandwich I S. Africa Tropics	 Islands 	•••	2 1 1 2 0 1 1	6 6 6 0 0
	NEPHRODIUM ATHAMANTICUM CATOPTERON, syn., Las CHINENSES CUSPIDATUM, syn., Last CYATHEOIDES INÆQUALE, syn., Last C MOLLE, syn., Aspidium ————————————————————————————————————	trea c trea C m m			$egin{array}{cccccccccccccccccccccccccccccccccccc$			S. Africa S. Africa China India Sandwich I S. Africa Tropics	 (slands 	•••	2 1 1 2 0 1 1 2	6 6 6 0 0 6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, syn., Las CHINENSES CUSPIDATUM, syn., Las CYATHEOIDES INÆQUALE, syn., Last c MOLLE, syn., Aspidium ————————————————————————————————————	strea c trea C rea i m f F.C.C.)			$ \begin{array}{cccc} 1 & & & \\ 1 & & & \\ 3 & & & \\ 2 & & & \\ 2 & & \\ 1 & & \\ 3 & & \\ 2 & & \\ 1 & & \\ \end{array} $			S. Africa S. Africa China India Sandwich I S. Africa Tropics	 (slands 		2 1 1 2 0 1 1 2 2	6 6 6 6 0 0 6 6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, syn., Las CHINENSES CUSPIDATUM, syn., Las CYATHEOIDES INÆQUALE, syn., Last c MOLLE, syn., Aspidium ————————————————————————————————————	trea c trea C a m f F.C.C.)			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			S. Africa S. Africa China India Sandwich I S. Africa Tropics Australia	 		2 1 1 2 0 1 1 2 2 1	6 6 6 6 0 0 0 6 6 6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, Syn., Las CHINENSES CUSPIDATUM, Syn., Las CYATHEOIDES INÆQUALE, Syn., Lastur C MOLLE, Syn., Aspidium ————————————————————————————————————	strea c			$\begin{matrix} 1 \\ 1 \\ 3 \\ 2 \\ 2\frac{1}{2} \\ 1\frac{1}{2} \\ 3 \\ 2 \\ 1 \\ 2 \\ 2 \end{matrix}$			S. Africa S. Africa China India Sandwich I S. Africa Tropics Australia	 (slands 		2 1 1 2 0 1 1 2 2 1 2	6 6 6 6 0 0 0 6 6 6 6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, Syn., Las CHINENSES CUSPIDATUM, Syn., Las CYATHEOIDES INÆQUALE, Syn., Lastr MOLLE, Syn., Aspidium CORYMBIFERUM SANGWELLII (I ODORATUM PENNIGERUM RODIGASSIANUM RUPESTRIS				$\begin{array}{c} 1 \\ 1 \\ 3 \\ 2 \\ 2\frac{1}{2} \\ 1\frac{1}{2} \\ 3 \\ 2 \\ 1 \\ 2 \\ 2\frac{1}{2} \end{array}$			S. Africa S. Africa China India Sandwich I S. Africa Tropics Australia	 (slands 		2 1 1 2 0 1 1 2 2 1 2 1	6 6 6 6 6 6 6 6 6 6 6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, Syn., Las CHINENSES CUSPIDATUM, Syn., Las CYATHEOIDES INÆQUALE, Syn., Lastr c MOLLE, Syn., Aspidium ————————————————————————————————————	trea C. trea i rea i T.C.C.)			$\begin{array}{c} 1 \\ 1 \\ 3 \\ 2 \\ 2\frac{1}{2} \\ 1\frac{1}{2} \\ 3 \\ 2 \\ 1 \\ 2 \\ 2\frac{1}{2} \\ 2 \end{array}$			S. Africa S. Africa China India Sandwich I S. Africa Tropics Australia Samoa	 		2 1 1 2 0 1 1 2 2 1 2 1	6 6 6 6 6 6 6 6 6 6 6 6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, syn., Las CHINENSES CUSPIDATUM, syn., Last CYATHEOIDES INÆQUALE, syn., Last c MOLLE, syn., Aspidium ————————————————————————————————————	trea C. trea i rea i T.C.C.)			$\begin{array}{c} 1 \\ 1 \\ 3 \\ 2 \\ 2\frac{1}{2} \\ 1\frac{1}{2} \\ 3 \\ 2 \\ 1 \\ 2 \\ 2\frac{1}{2} \end{array}$			S. Africa S. Africa China India Sandwich I S. Africa Tropics Australia Samoa	 		2 1 1 2 0 1 1 2 2 1 2 1	6 6 6 6 6 6 6 6 6 6 6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, Syn., Las CHINENSES CUSPIDATUM, Syn., Las CYATHEOIDES INÆQUALE, Syn., Lastr c MOLLE, Syn., Aspidium ————————————————————————————————————	trea c trea C ea i m f F.C.C.)			$\begin{array}{c} 1 \\ 1 \\ 3 \\ 2 \\ 2\frac{1}{2} \\ 1\frac{1}{2} \\ 3 \\ 2 \\ 1 \\ 2 \\ 2\frac{1}{2} \\ 2 \end{array}$			S. Africa S. Africa China India Sandwich I S. Africa Tropics Australia Samoa	 		2 1 1 2 0 1 1 2 2 1 2 1	6 6 6 6 6 6 6 6 6 6 6 6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, syn., Last CHINENSES	strea c trea C rea i n m F.C.C.)	 		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			S. Africa S. Africa China India Sandwich I S. Africa Tropics Australia Samoa New Zeala	 		2 1 1 2 0 1 1 2 2 1 2 1 3	6 6 6 6 0 0 0 6 6 6 6 6 6 6 6 6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, syn., Las CHINENSES	strea c trea C rea i n m F.C.C.)	 		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			S. Africa S. Africa China India Sandwich I S. Africa Tropics Australia Samoa	 		2 1 1 2 0 1 1 2 2 1 2 1 3	6 6 6 6 6 6 6 6 6 6 6 6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, syn., Las CHINENSES	strea c trea C rea i n m F.C.C.)	 		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			S. Africa S. Africa China India Sandwich I S. Africa Tropics Australia Samoa New Zeala	 (slands 		2 1 1 2 0 1 1 2 2 1 2 1 1 3	6 6 6 6 0 0 0 6 6 6 6 6 6 6 6 6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, Syn., Las CHINENSES CUSPIDATUM, Syn., Las CYATHEOIDES INÆQUALE, Syn., Lastr MOLLE, Syn., Aspidium ————————————————————————————————————	strea c trea C rea i i m f F.C.C.)	 		1 1 3 2 2 ^{1/2} 1 2 1 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 1 2 2 1			S. Africa S. Africa China India Sandwich I S. Africa Tropics Australia Samoa New Zeala China	 		2 1 1 2 0 1 1 2 2 1 2 1 3	6 6 6 6 0 0 0 6 6 6 6 6 6 6 6 6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, syn., Las CHINENSES	ctrea c. trea C. rea i n m F.C.C.) Colypodium stichum l.			$\begin{array}{cccccccccccccccccccccccccccccccccccc$			S. Africa S. Africa China India Sandwich I S. Africa Tropics Australia Samoa New Zeala China Australia	 		2 1 1 2 0 1 1 2 2 1 2 1 1 3	6 6 6 6 6 6 6 6 6 6 6 6 6 6
	NEPHRODIUM ATHAMANTICUM CATOPTERON, Syn., Las CHINENSES CUSPIDATUM, Syn., Las CYATHEOIDES INÆQUALE, Syn., Lastr MOLLE, Syn., Aspidium ————————————————————————————————————	trea c. trea C. rea i The instance of the control of the c	 		1 1 3 2 2 ^{1/2} 1 2 1 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 1			S. Africa S. Africa China India Sandwich I S. Africa Tropics Australia Samoa New Zeala China	 		2 1 1 2 0 1 1 2 2 1 2 1 3 1 2 2 3	6 6 6 6 0 0 0 6 6 6 6 6 6 6 6 6

NOTHOCLÆI	A,V				Aver	age He	ight.					s.	d.
CANDIDA		•••			•••	feet. $\frac{1}{2}$	•••		N. America	• • •		ъ.	u,
CRETACEA		•••		•••		$\frac{1}{2}$.		•••	N. America	•••	• • •		
	A	very dw	arf, but	beau	tiful, S	ilver F	ern, wit	h triar	ngular fronds.				
DEALBATA				,	•••	$\frac{1}{4}$			N. America	•••			
GRAYII				•••		· 1/4			N. America				
Hookerii	• • •		•••			$\frac{1}{2}$.,.	N. America	•••			
HYPOLEUCA	•••		•••			$\frac{1}{2}$	• • •		Chili	• · · ·			
LANUGINOSA				•••	•••	$\frac{1}{2}$	• • • •	• • • •	S. Europe	• • •			
	A ra	ire speci	es; the	frond	s are l	ight-co	loured,	soft, a	nd very woolly.				
LEMMONII	•••					$\frac{1}{2}$			N. America	••			
MARANTÆ, S	yn., A	crostich	um m.	•••		1			S. Europe	• • •	• •	2	6.
NEWBERRYII	(F.C.		•••	•••	•••	$\frac{1}{2}$		•••	N. America	••		3	6
		A be	autiful	specie	s, cove	red wi	th silve	ry tom	entum.				
PARRYII	• • •	•••	•••	•••		$\frac{1}{2}$			N. America	• · ·			
SINUATA (see	Stov	e Ferns)	·		•••	1	•••	•••	Mexico	• · ·		2	6
		A char	ming s	pecies	, with	long, n	arcow,	droopir	ng fronds.				



PLATYCERIUM ALCICORNE.

Platyceriums grow much better and show off their peculiar fronds to much greater advantage on blocks of wood than in pots.

					DIOCKS	01 W00	u man	In boo	э.					
ON	OCLEA													
d	sensibilis (•••	•••	2	•••		N. America	•••	• • •	1	0
ON	YCHIUM													
c	$\left. egin{array}{l} capensis \\ { t JAPONICUM} \\ lucidum \end{array} ight\}$		•••	•••	•••		$1\frac{1}{2}$	•••		Japan			1	0
OS	MUNDA													
	JAPONICA COL	RYMBIE	ERA (S	ee illus	tration) 	1	•••		Japan			2	6
		A dist	tinct aı	nd pret	ty dwa	rf Fern	, with	\mathbf{c}_{rested}	fronds	of light green				
	JAVANICA	• • •	•••			•••	$1\frac{1}{2}$			Java		•••	2	6
	PALUSTRIS			• • •	•••		2			Brazil			1	0
$_{ m its}$	A handsome ore graceful, as s foliage through	nd does	s not g	row so	sely res large;	emblin its you	g our r	native I nds are	Royal F produc	ern in its styl ed nicely tint	e of ed, a	growth nd it re	, b etai	ut ns

ELLÆA			Aver	age Heig	yh t.					
ANDROMÆDIFOLIA				feet.			N. America		s. 2	
ACDEDA	•••	•••	• • •	<u>2</u>	•••	- • •		•••	Z	6
	TO1		• • • •	3	• • •	•••	N. America			
ATROPURPUREA, syns	s., Platyloma	a., Pt	eris a	$\frac{3}{4}$	• • • •		N. America	• • • • • • • • • • • • • • • • • • • •	1	6
Brewerii		• • •	•••	$\frac{1}{2}$			N. America	""		
Bridgesii, syn., Pla	tyloma B.		•••	$\frac{1}{2}$			California	•••	2	6
CALOMELANOS			• • •	1			S. Africa			
DENSA		•••	•••	$\frac{1}{4}$			California		1	6
GERANIIFOLIA, syns.	, Platyloma	g., Pte	ris g.	$\frac{1}{2}$	•••		E. Indies		1	6
d GRACILIS				$\frac{1}{4}$			N. America	•••	1.	6



POLYSTICHUM ARISTATUM VARIEGATUM.

PELLÆA—Continued.											
c INTRAMARGINALIS, S	syns., C	assebeera	i., Ch	eilanthe	s i.,	Platylor	na i., Pteris	i.,	Pteris		
fallax	-		•••	1			Mexico	• • •	•••	1	0
MARGINATA			• • • •	$\frac{1}{2}$		•••	N. America	• • •	• • •		
d ornithopus			• • • •	$\frac{1}{2}$		• 5.•	California	• • •		2	
BRACHY	PTERA			$\frac{1}{2}$	• • •		California	• • •		3	6
				$\frac{1}{2}$	• • •	•	N. America	• • •	•••		
b ternifolia, syns., F	Platylom	a t., Pteris	t	1			Trop. Americ				
This is a beautiful s	pecies fo	r either po	t or ba	asket, bu	ıt par	ticularly	for the latter	, its	fronds	bei:	ng
pendent.							37 1			_	
WRIGHTIANA			•••	$\frac{1}{2}$	•••	• • •	N. America	•••	• • •	2	6
PHEGOPTERIS											
GERMANIANA				1			Guadeloupe	• • •			
TRICHODES, syns., Po			odium	teneric		3ft.	Malayan Arcl	hipe	l	1	0

PLATYCERIUM	Aver	age Heig	ht.			s.	d,
ALCICORNE, syn., Acrostichum a	•••	2		•••	Malayan Archipel	. 1	6
MAJUS	•••	$1\frac{1}{2}$	•••			3	6
Willinckii		$1\frac{1}{2}$			Java	. 10	6
PLATYLOMA							
CORDATA, syns., Pellæa c., Pteris sagitte	ata, P	Pellæa s.	1		Trop. America	. 2	6
FALCATA, syns., Pellæa f., Pteris setical	ılis	1	•••	• 57	Australia	. 2	6
b flexuosa, syns., Pellæa f., Pteris f.		1	• • • •		Trop. America	2	6
ROTUNDIFOLIA, syns., Pellæa r., Pteris i	f	$\frac{3}{4}$	•••		New Zealand	. 1	6
CORDIFOLIA		1		•••		1	6



PLYOSTICHUM VIVIPARUM.

PLEOPELTIS PERCUSSA, syns., Drynaria p., Phlebod	ium p.,	Polypo	dium p	., P. cu				
PŒCILOPTERIS		1	•••	•••	Trop. America	. •••	2	6
	•••	2			E. Indies		2	6
POLYPODIUM								
$\left. egin{array}{c} c \ \ BILLARDIERII \\ \emph{diversifolium} \\ \emph{lepidopodum} \\ \emph{scandens} \end{array} \right. \left. \left\{ egin{array}{c} \mathrm{Phymatodes} \\ \mathrm{Pleopeltis} \ \mathrm{B} \end{array} \right. \right.$.B. }	1	•••		N. Zealand		2	6
DREPANUM		2	•••		Madeira	•••	3	6
FALCATUM	•••	1	•••		N. America	•••	1	6

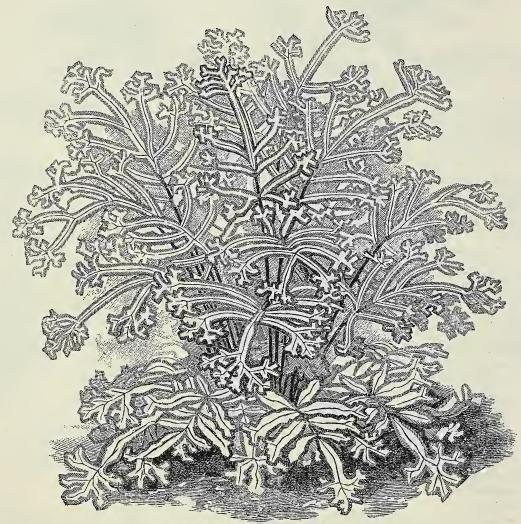
POLYPODIUM—Contin	ued.			Aver	age Heig	ht.					a
HASTATUM	•••		•••		$\frac{1}{2}$	•••	•••	China	•••	s. 1	a. 6
INCANUM		•••			$\frac{3}{4}$	•••		Central America		2	6
KARWINSKIANUM					1			M D		7	**
PLEBEIUM ∫	•••	•••	•••	•••	1	•••	•••	Mexico, Peru	•••	1	6
RHAGADIOLEPIS)		*			$\frac{1}{6}$			N. America			
THYSSANOLEPIS)	•••	•••	•••	•••	6	•••	•••	N. America	•••		
Schneiderii (new)	•••	•••	•••	2		•••	••• •••	•••	7	6
SCOULERII	•••	•••	•••	•••	1	• • •		N. America	• • •	2	6
UROPHYLLUM			•••	•••	2			India	****	3	6



PTERIS ARGYREA,

PC	LYSTICHUM,	syn., A	spidiun	ı									
	ACROSTICHOIDES	•••	•••		•••	$1\frac{1}{2}$	•••	•••	N. America	•••	• • •	0	6
		INCISUM	•••		•••	$1\frac{1}{2}$	•••	•••	N. America	• • • •		1	6
	rhomboideum }	•••			•••	$1\frac{1}{2}$	•••	•••	E. Indies	•••		2	6
	ARISTATUM, syn.,	Lastrea	a	•••		1		• • •	Assam		• • •	1	0
	VARI					1		•••	Japan	•••		1	0
GO	This variety has urse of the rachis,						g throug	h the	bases of the pi	nnule	s alor	ng t	he
	capense, syn., I	Polypodiu	m c. }	•••		2			S. Africa	•••	•••	1	6
	CONCAVUM, syn.,	Last. Sta	ndishii	•••		2	•••		Japan	•••		2	6
	CONIIFOLIUM	•••		••••	• • • •	$1\frac{1}{2}$	***		E. Indies	•••	·	2	6
	DENTICULATUM	•••	•••	•••	•••	$1\frac{1}{4}$	•••		Jamaica	• • •	•••	3	6
	FALCINELLUM	•••		•••		$1\frac{1}{2}$			Madeira			3	6
	LENTUM	•••				1			W. Indies			2	6
	LEPIDOCAULON			•••		$\frac{3}{4}$		• • •	Japan			2	6
	MUCRONATUM	• • • •				$\frac{3}{4}$			Jamaica		•••	2	6
	POLYBLEPHARUM					1			Japan			1	6
	PROLIFERUM		•••			2			Tasmania		• • •	2	6
	PUNGENS	•••	•••			$1\frac{1}{2}$	•••	•••	S. Africa	•••		3	6
	RICHARDII	•••		•••	•••	$\frac{3}{4}$		•••	New Zealan	d	•••		

POLYSTICHUM—Con	ntinued.			Aver	age Hei	ght.						
SETOSUM		•••			feet.	•••		Japan			s. 1	d. 0
TRIANGULUM LAX	UM)				0				* 4 %			
XIPHIOIDES	}_	•••	•••	• • •	2	•••	• • •	•••	•••	•••	1	6
A remarkable	species,	produc	ing lon	g and	very na	rrow fr	onds of	somewh	at droopin	g habit		
TRIPARTITUM	• • •		• • • •	•••	2	•••		•••			2	6
TRIPTERUM	•••		•••		1			Japan	:		2	6
Tsus-Simense	1021 ()	• • • •			1		• • •	Tsus-S	ima		1	0
VESTITUM	•••	•••	••	•••	2	•••		New Z	ealand			
VENUS	rum	•••	•••		1	• • • •	•••	New Z	ealand		3	6
VIVIPARUM	• • •	•••	•••		1		,	W. Ind	lies		2	6
		A hand	some è	vergre	en Fern	(see il	lustrati	ion).				



PTERIS CRETICA MAYII.

PTERIS

	ADIANTOIDES macrophyllum } syns., Pel	læa a.,	Platylo	ma a.	$1\frac{1}{2}$		•••]	Ĺ	0
	ARGUTA		•••		2	•••	•••	Madeira	•••			
	POLYDACTYLA		•••	•••	2	•••	•••	Azores	•••	•••		
	ARGYREA	•••	•••	•••	3	•••	•••	E. Indies	•••	•••	Ĺ	0
	BIAURITA, syn., Campteria	b.	•••	•••	2	•••	•••				1	6
J.	ARGENTEA	• • •	•••	•••	2		•••		•••			
	CHINENSIS crenata ensiformis	•••	•••	•••	1		•••	Tropics	•••		l	0

	TERIS—Continued.				120	rage He	iaht						
	сомоза, syn., Litob	mahin	trinant	ito		feet.	gno.		E. Indies	,		s. 1	d. 6
c	CRETICA)	посша	urpart	11 a	• • •	$1\frac{1}{4}$	•••		Tropics		•••	0	6
	pentaphylla)	•••	•••	•••	•••		•••	•••	1100100	7			
c	CRETICA ALBA LINE.		•••	•••	•••	1	•••	•••		•••	•••	1	0
	CRISTATA	•••	• •	•••	•••	2	•••	• • •	•••	•••	• • •	0	6
	——— Drinkwate		•••	•••	•••	3	•••	•••	***	•••	• • • •	2	6
	MAGNIFICA	•••	•••	•••	•••	$1\frac{1}{2}$	••	•••	•••		• • •	1	0
	MAYII	•••	•••	•••	•••	1	•••	•••	•••		•••	1	6
	NOBILIS	•••	•••	• • •	•••	$1\frac{1}{2}$	•••	•••	•••	•••	• • • •	1	6
	SEMPERVIRE	NS	•••	•••	•••	2	•••	•••	•••	•••	• • •	1	0
	crispa straminea	•••			•••	3	•••	•••	Chili	•••	•••	2	6
	GHIESBREGHTII					2			Mexico	•••		2	6
	наsтата, syns., Pel	læa h.	, Platyl	oma h.		$1\frac{1}{2}$			S. Africa	•••	• • •	1	0
	——— HASTÆFO		•••			$\frac{3}{4}$	•••	•••	S. Africa	•••		1	6
	HETERODACTYLE				•••	2	• • •			• • • .		1	6
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		THE				6							
		A. A.						THE CONTRACTOR	17				
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granini			=										
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gran com d	PTEDIS OPERIO	NOBIL									êe		
garage comments	PTERIS CRETICA	NOBIL	IS.					TERIS	1 P. C. S.		⊋e		
gark		NOBIL	IS.					TERIS	HASTATA.k of Choice	Ferns.'')	2e		
grift over 2 miles	HETEROPHYLLA		als.			1		TERIS	HASTATA.k of Choice	Ferns.'')	•••		
gare	HETEROPHYLLA INTERNATA		•••	•••	•••	1 1	From "'	PTERIS The Boo	HASTATA.k of Choice	Ferns.'') , Brazil	•••	1	0
gage	HETEROPHYLLA INTERNATA KINGIANA		•••			1 1 2	From "'	PTERIS The Boo	HASTATA k of Choice I W. Indies Norfolk I	Ferns.") , Brazil sland	•••	2	6
	HETEROPHYLLA INTERNATA KINGIANA LEPTOPHYLLA, syn.,		•••		•••	1 1	From "'	PTERIS The Boo	HASTATA.k of Choice	Ferns.'') , Brazil	•••		
gark	HETEROPHYLLA INTERNATA KINGIANA LEPTOPHYLLA, syn., LONGIFOLIA		•••			$egin{array}{c} 1 \\ 1 \\ 2 \\ 1rac{1}{2} \end{array}$	From "'	PTERIS The Boo	HASTATA.k of Choice : W. Indies Norfolk I Brazil	Ferns.") , Brazil sland	•••	2	6
ggith committee	HETEROPHYLLA INTERNATA KINGIANA LEPTOPHYLLA, syn., LONGIFOLIA costata ensifolia		•••			1 1 2	From "'	PTERIS The Boo	HASTATA k of Choice I W. Indies Norfolk I	Ferns.") , Brazil sland	•••	2	6
agit semid	HETEROPHYLLA INTERNATA KINGIANA LEPTOPHYLLA, syn., LONGIFOLIA costata ensifolia vittata	 Litob	•••			1 1 2 1½ 3	From "'	PTERIS The Boo	HASTATA. k of Choice W. Indies Norfolk I Brazil Tropics	Ferns.'') , Brazil sland	•••	2 1	6 6 0
grit and a second secon	HETEROPHYLLA INTERNATA KINGIANA LEPTOPHYLLA, Syn., LONGIFOLIA costata ensifolia vittata Mariesii	 Litob	•••			$1 \\ 1 \\ 2 \\ 1\frac{1}{2}$ 3	From "'	PTERIS The Boo	HASTATA. k of Choice W. Indies Norfolk I Brazil Tropics Japan	Ferns.") i, Brazil sland		2 1 1	6 6 0
	HETEROPHYLLA INTERNATA KINGIANA LEPTOPHYLLA, Syn., LONGIFOLIA costata ensifolia vittata Mariesii Macilenta	 , Litob: 	 rochia l 			$ \begin{array}{c} 1 \\ 1 \\ 2 \\ 1\frac{1}{2} \end{array} $ $ \begin{array}{c} 3 \\ 1 \\ 1\frac{1}{2} \end{array} $		TERIS The Boo	HASTATA. k of Choice of W. Indies Norfolk I Brazil Tropics Japan New Zeal	Ferns.") , Brazil sland		2 1 1 1	6 6 0 6 6
	HETEROPHYLLA INTERNATA KINGIANA LEPTOPHYLLA, Syn., LONGIFOLIA costata ensifolia vittata —— MARIESII MACILENTA MOLLUCCANA	 , Litob:	 rochia l			$ \begin{array}{c} 1 \\ 1 \\ 2 \\ 1\frac{1}{2} \end{array} $ $ \begin{array}{c} 3 \\ 1 \\ 1\frac{1}{2} \\ 4 \\ \end{array} $	 	TERIS The Boo	HASTATA. k of Choice W. Indies Norfolk I Brazil Tropics Japan New Zeal Malay Is	Ferns.") a, Brazil sland and lands		2 1 1 1 1 3	6 6 0 6 6 6
and the second	HETEROPHYLLA INTERNATA KINGIANA LEPTOPHYLLA, Syn., LONGIFOLIA costata ensifolia vittata MACILENTA MOLLUCCANA NEMORALIS	 , Litob: 	 rochia l 			$ \begin{array}{c} 1 \\ 1 \\ 2 \\ 1^{\frac{1}{2}} \end{array} $ $ \begin{array}{c} 3 \\ 1 \\ 1^{\frac{1}{2}} \\ 4 \\ 2 \end{array} $		TERIS The Boo	HASTATA. k of Choice W. Indies Norfolk I Brazil Tropics Japan New Zeal Malay Is Tropics	Ferns.") a, Brazil sland and lands		1 1 1 1 3 1	6 6 0 6 6 6 6
with committee of the c	HETEROPHYLLA INTERNATA KINGIANA LEPTOPHYLLA, Syn., LONGIFOLIA costata ensifolia vittata MACILENTA MOLLUCCANA NEMORALIS VARIEGO	 Litoba	 rochia l 			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		TERIS The Boo	HASTATA. k of Choice of W. Indies Norfolk I Brazil Tropics Japan New Zeal Malay Is Tropics	Ferns.") a, Brazil sland and and lands		2 1 1 1 1 3 1 1	6 6 0 6 6 6 6
approximate of the control of the co	HETEROPHYLLA INTERNATA KINGIANA LEPTOPHYLLA, Syn., LONGIFOLIA costata ensifolia vittata — Mariesii Macilenta Molluccana NEMORALIS Varies Ouvrardii	 Litoba	 rochia l 			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		TERIS The Boo	HASTATA. k of Choice of W. Indies Norfolk I Brazil Tropics Japan New Zeal Malay Is Tropics	Ferns.") a, Brazil sland and lands		1 1 1 3 1 1 1	6 6 6 6 6 6 0
egit annual services and services are services and services are services are services and services are servic	HETEROPHYLLA INTERNATA KINGIANA LEPTOPHYLLA, Syn., LONGIFOLIA costata ensifolia vittata MACILENTA MOLLUCCANA NEMORALIS VARIEGO OUVRARDII QUADRIAURITA	 	 rochia l			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		TERIS The Boo	HASTATA. k of Choice of W. Indies Norfolk I Brazil Tropics Japan New Zeal Malay Is Tropics E. Indies	Ferns.") , Brazil sland and lands		2 1 1 1 3 1 1 1 1	6 6 6 6 6 6 0 0
egit amend	HETEROPHYLLA INTERNATA KINGIANA LEPTOPHYLLA, Syn., LONGIFOLIA costata ensifolia vittata — Mariesii Macilenta Molluccana NEMORALIS Varies Ouvrardii	 Litoba	 rochia l 			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		TERIS The Boo	HASTATA. k of Choice of W. Indies Norfolk I Brazil Tropics Japan New Zeal Malay Is Tropics	Ferns.") a, Brazil sland and lands		1 1 1 3 1 1 1	6 6 6 6 6 6 0

PTERIS—Continue bc SCABERULA A most beaut great beauty. Vo	 iful Fern, wi	 th cree for bas	 ping r kets, r	 hizomes	rage He feet. $\frac{3}{4}$, from x , or pe	 which	 spring	N. Zealan		 fron	$^{ m s.}_{ m l}$	d. 6 of
SEMIPINNATA dimidiata flabellata		•••			3			China			1	0
c serrulata		•••			$1\frac{1}{2}$	• • •	•••	Tropics	•••		0	6
¢	RISTATA	•••		•••	1	•••	•••	•••	•••	•••	0	6
	сом	PACTA.	•		1	•••	•••		•••		1	6
	DENS	SA			1						1	6



PTERIS SERRULATA CRISTATA COMPACTA.

SERRULATA CRISTAT	A GRACILIS	•••	•••	1	•••						1	6
	- PARVULA		•••	1	•••	•••	•••	•••				
	- PLUMOSA	•••	•••	$1\frac{1}{2}$			•••		•••		1	6
———— MAJOR				3	•••						3	6
O	RISTATA	•••		3	•••			• • •			3	6
G	LORIOSA		•••	2		•••	•••	•••			3	6
TREMULA			•••	3	•••		N. Ze	aland			0	6
CRISPA			•••	2							1	0
ELEGANS			•••		•••	,,,			•••		2	6
			• • :	2				•••	·		1	0
——— SMITHIANA		•••	•••	2		•••					2	6
TRIPARTITA			•••	2			Polyn	esia			1	6
UMBROSA			•••	$2\frac{1}{2}$	•••		Austr				.1	6
UNDULATA				3								
VICTORIÆ		•••	•••	1	•••	. • •		•••		•••	2	6
WALLICHIANA	•••	•••	•••	2 .	•••		Himal	layas	•••		1	6
WIMSETTII		•••	•••	$1\frac{1}{2}$		•••	•••	•••			1	0
	• • • • • • • • • • • • • • • • • • • •		•••	-2	•••	•••	•••	•••	•••	• • •		v

SADLERIA (Tree Ferns) CYATHEOIDES (see illustration)	A ve	rage Hei feet.	ght.	•••	S. Sea Islands	s. d.
SCHIZEA PUSILLA		$\frac{1}{2}$	•••		N. America	•••
SCOLOPENDRIUM KREBSII, syns., Lomaria Australis, L. d	ensa	$1\frac{1}{2}$			S. Africa	***



PTERIS TREMULA SMITHIANA

STRUTHIOPTERIS, syn., Onoclea					
d GERMANICA (The Ostrich Feather F	Fern) 2		Europe	 1	0
A handsome free-g	growing species	does well in	a cold house.		
d Japonica Orientalis	1½		Japan	 2	6
PENNSYLVANICA	3		N. America	 1	6
RECURVA	2		•••	 3	6

TODEA, syn., Leptopteris (Filmy Ferns)	Average Height. feet.	s. d.
AFRICANA	:	
Australasica (not a Filmy Fern)	$1\frac{1}{2}$	S. Africa 2 6
BARBARA		
FRASERII	$1\frac{1}{2}$	Australia
GRANDIPINNULA	2	··· ··· ··· ···
A new v	ariety of great beauty.	
hymenophylloides c pellucida c	$1\frac{1}{2}$	N. Zealand 1 6

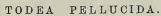


SADLERIA CYATHEOIDES.

TODEA—Continued. c superba 1 N. Zealand It is impossible to do justice to this species by description, it must be seen in its lovelin appreciated and enjoyed. The fronds grow from 18 to 24 inches long, most gracefully cur segments are very crowded, and instead of the usual flat growth of other kinds, they are turned upwards as to give the fronds a rich moss-like character, deep green in colour. This and the preceding will all grow well in a ferncase, or in a cold greenhouse. To preserve their it is necessary to keep them in a cool, damp, shady situation.	ess to be ved; the so much s species
——————————————————————————————————————	
VROOMII (not a Filmy Fern) $2\frac{1}{2}$ Australia	
Wilkesiana 2 Fiji Islands	

T	RICHOMANES	(Filmy	Ferns)		Aver	age Heig	ht.				S.	d.
	ALABAMENSIS	•••		•••	•••	$\frac{1}{2}$	•••	•••	Alabama			0
	ALATUM ATTENUATUM	•••	•••		•••	$\frac{1}{2}$	•••	•••	W. Indies	· · · · ·	5	0
	ANGUSTATUM		•••		•••	$\frac{1}{2}$			Tristan d'Acunh	ıa	. 7	6
	AURICULATUM	•••		'	•••	•••	•••		Japan, Java	•	7	6
	Colensoii		*	•••	•••	14		•••	New Zealand		10	6
	CRINITUM	•		•••		$\frac{1}{4}$		•••	W. Indies	~7		
	CRISPUM	•••				1	•••		W. Indies		21	0
	EXSECTUM		•••	•••	••	$\frac{1}{2}$	•••	•••	Chili	•••	7	6
	FŒNICULACEUM		•••		•••	$\frac{1}{3}$		•••	Philippines			
	HUMILE				•••	$\frac{1}{6}$	•••	•••	New Zealand	· *	3	6
	KAULFUSSII	•••			•••	1	•••	•••	West Indies		10	6
	LUSCHNATHIANUM	•••			•••	•••			Brazil	·	,	
		PROLON	GUM			- 1	•••				7	6
		PULCHR	UM		•••	1	•••	•••			7	6



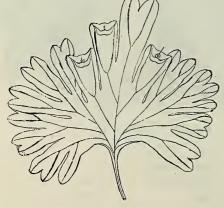


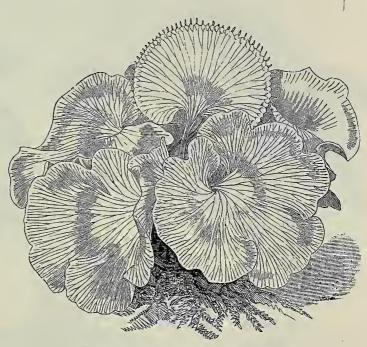
TODEA SUPERBA

						TODEA SU	I HILDA.	
TRICHOMANES—Continued.								
Lyallii			$\frac{1}{12}$	•••	•••	New Zealand	•••	
MAXIMUM			1	•••		Java, Borneo	10	6
UMBROSUM		•••	1		•••	Java	10	6
MEIIFOLIUM		•••	$1\frac{1}{2}$	•••	•••	Java	•••	
MEMBRANACEUM		•••	$1\frac{1}{2}$	***	•••	Trop. America	20	6
PARVULUM		•••	$\frac{1}{12}$	•••	•••	Java		6
Petersii	;; ; ;	•••	$\frac{1}{12}$	•••	•••	N. America	10	6
PINNATUM	•••		$\frac{1}{2}$	•••	•••	Trop. America	10	6
Prieurii		•••	1	•••	•••	West Indies		
PYXIDIFERUM			$\frac{1}{2}$	•••	•••	West Indies		6
c RADICANS	•••		1	•••	•••	Europe		6
AMERICANA	•••	•••	34	••	***	N. America		0
c ———Andrewsii	··· · · · · · · · · · · · · · · · · ·	; ;:•••	34	•••	•••	***		0
CAMBRICUM	•••	•••	3	• •••	•••	Wales	•••	0
CRISPUM	•••	"	3	•••	•••	•••	0	6
CRISPA RAMOSUM	***	, •••	3				5	0
						-		

m	ICHOMANES	Com	timund			Any	erage H	Toight							
TI	HUMANES	Con	unueu.			Δv	feet.	eigno.						s.	d.
	RADICANS D	ILATA	TUM	• • •	•••	• • •	1	•••	•••	•••	•••	• • •	•••	5	0
	DISSE	CTUM	•••	•••	•••		$\frac{3}{4}$	•••		•••		•••	•••	3	6
		——cп	NEATU	4		• • •	$\frac{3}{4}$	•••		•••	•••	•••		7	6
c	RENIFORME	•••	•••	•••	·	•••	$\frac{3}{4}$	•••	•••	New	Zealar	nd		10	6
	RIGIDUM	•••			•••		1	•••		S. A	frica	•••	•••	10	6
	STI	RICTU	м			•••	$\frac{3}{4}$	•••	•••	New	Zealar	nd		10	6
	SCANDENS	•••		•••		•••	1	•••	•••	W. In	ndies	•••		7	6
	SPECIOSUM	•••	•••	•••	•••		$\frac{1}{2}$		•••	Made	eira			5	0
	SPICATUM			•••	•••	•••	$\frac{2}{\frac{1}{3}}$	•••	•••	W. In	ndies			10	6
		•••	•••	•••	•••	•••		•••	•••				•••		
	TENERUM	•••	. •••	•••	•••	•••	$\frac{1}{3}$	•••,	•••	Mexic	co to P	eru	•••	7	6
	TRICHOIDIUM	•••	•••	•••	•••		$\frac{1}{4}$	•••	•••	W. In	ndies	•••		10	6
c	VENOSUM	•••			•••	•••	1 6	•••	•••	New	Zealan	d	•••	5	0
7	The base and all	other	Filmy 1	Ferns	must h	e kent	in a co	ol sha	ly situ	ation ar	d a mo	pist at	mosph	ere.	







TRICHOMANES RENIFORME.

TRICHOMANES	PARVULUM.
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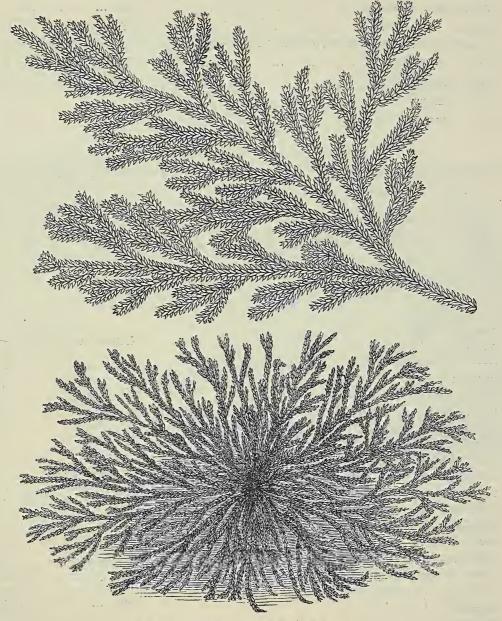
V)	TTARIA LINEATA	-	•…	•••	•••		$\frac{1}{2}$			N. America		•••		
W	OODSIA													
	ALPINA HYPERBORE	<u> </u>		•••			$\frac{1}{4}$	•••		Europe	•••	•••	3	6
	GLABELLA	•••	. •••	•••		•••	$\frac{1}{2}$ ı		···	N. America	•••	•••	2	-
d	ILVENSIS, Sy	n., Ac	rostich	um i.	•••		$\frac{1}{3}$	•••	. •••	Europe	•••	•••	1	0
d	MEXICANA	•••	•••	•••	•••	•••	1 .		•••	Mexico	•••	•••		
	MOLLIS	• • •	•••	•••	•••	•••	1	•••	•••	Mexico	•••	•••		
d	OBTUSA PERRINIANA	}	•••	•••	•••	•••	1	•••	•••	N. America	•••	•••	1	0

WOODSIA—Continued. Average Height.		
d oregana $rac{1}{2}$ N. America	s. 2	d 6
ро <u>гу</u> ятісної дея Vентеніі <u>1</u> Japan	2	6
d scopulina $\frac{1}{2}$ N. America	2	6
WOODWARDIA		
Fortuneii		^
Orientalis 2 Japan	1	0
Japonica, syn., Blechnum J $1\frac{1}{2}$ Japan		
b radicans 3 S. Europe	1	6
A splendid large-growing Fern, produces long drooping fronds; very suitable for baskets.		
	2	6 .
BURGESSIANA 2	2	6
——————————————————————————————————————	1	6
b ————————————————————————————————————	2	6

SELAGINELLAS.

The state of the s												
	apus DENSA \				1 2	•••	•••	N. America and Braz	zil	s. 0	d. 6	
	ELEGANS	•••	•••		12	•••	•••	··· ·· ···	•••	0	6	
c	Brunonii	•••	•••	•••	$\frac{1}{6}$	•••	•••	Azores	•••	0	6	
	Californica ,	•••			$\frac{1}{3}$		•••	California	•••	1	6	
	CAULESCENS ARGENTEA UMBROSA		•••	•••	1			Colombia	•••	1	0	
	CURCINALIS	•••		•••	1			Trop. America	•••	1	6	
c	DELICATISSIMA			•••	$\frac{1}{6}$	•••		Colombia	• • •	1	0	
c c	helvetica }	•••		•••	$\frac{1}{6}$			Europe	•••	0	6	
	DIVARICATA	•••	•••	•••	$\frac{1}{2}$	•••			• • •	1	0	
	Douglassii	•••	•••	•••	$\frac{1}{12}$	•••	•••	N. America	•••	1	0	
	INVOLVENS (see illustration	.)	•••	•••	$\frac{1}{3}$		•••	India	•••	2	6	
C	JAPONICA conferta	•••	•••	•••	$\frac{1}{2}$	•••		Japan	•••	1	0	
c	KRAUSSIANA				$\frac{1}{6}$	•••		Cape Colony, Azores		0	6	
С	hortensis 5							• • • • • • • • • • • • • • • • • • • •	•••	Ŭ		
	This variety	is con	amonly	, thou		neousiy	, name	d denticulata.				
С	KRAUSSIANA AUREA	•••	•••	•••	$\frac{1}{6}$	•••	•••		•••	0	6	
	VARIEGATA	•••	•••	•••	<u>6</u>	•••	•••		•••	0	6	
	formosa	•••	•••	•••	$\frac{3}{4}$	***	•••	Mexico	•••	0	6	
	MARTENSII VARIEGATA	•••	•••		$\frac{3}{4}$	•••	•••		•••	1	0	

SELAGINELI	LAS—Con	ntinued.		Are	rage Hei	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.5				
OREGANA	•••			 	1 d	•••		N. America	•••	1	6.
PATULA SARMENTO	$_{\mathrm{SA}}$	•••	*** 5 -	 	$\frac{1}{6}$	•••	•••	Jamaica		1	0
c Poulterii		•••		 •••	16	e •		Azores	·	. 0	6
PUBESCENS Wildenovia	(•••		 •••	1	•••	•••	E. Indies		1	6



SELAGINELLA INVOLVENS.

	Stansfieldii	•••	•••		•••	$\frac{1}{6}$		•••	.j	· ·		0	_6
C	STOLONIFERA	•••	•••	•••	• • • •	$\frac{3}{4}$	•••	•••	Mexico		***	Q	6
	VARIABILIS)					-				4 -	1,		
c	mutabilis	•••	•••	•••	•••	$\frac{1}{6}$	•••	•••	Jamaica	•••	•••	0	6
·c	SERPENS	- 4	· u										

HARDY EXOTIC FERNS.

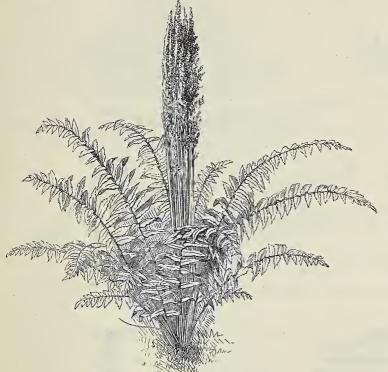
See remarks at the beginning of Stove Ferns.

Many of the following species and varieties, though sufficiently hardy to grow outside in many parts of the country, are pretty for Greenhouse cultivation also, doing better in than out of doors; but when grown outside those marked with an asterisk (*) should be protected in winter by having something put over the crowns, such as old fronds or soft hay, pegged down to prevent its being blown about.

blown about.	_	, F-99-11 no n-1 - 1	8											
ADIANTUM Average Height. feet. s. d.														
***	$\left. egin{array}{cccccccccccccccccccccccccccccccccccc$													
7		N. America												
ALLOSORUS														
d acrostichoides	1	N. America	1 6											
ASPIDIUM	-													
CRISTATUM, syn., Lastrea c	1	N. America	1 0											
CLINTONIANUM, syn., Lastrea c. (Ö. 3	N. America	1 6											
FRAGRANS, syn., Lastrea f d Nevadense, syn., Lastrea N	$1\frac{1}{2}$ $1\frac{1}{2}$	N. America Nevada	•••											
d Noveboracensis, syn., Lastrea N	$1\frac{1}{2}$	Nevada N. America	1 0											
RIGIDUM ARGUTUM		N. America	1 6											
SPINULOSUM var. Bootii, syn., Lastrea s. B. d Thelypteroides, syn., Lastrea t	$2\frac{1}{2}$	N. America	1 6											
d thelypteroides, syn., Lastrea t	1½	N. America	1 0											
	- Bull		1000											
	4 X 67 X 6		The same of the sa											
, se														
			A SALL											
		Took I was												
	M. M. Mark													
	3													
	Ser.													
		300												
		. 20												
A DE A MITTAL DED A MITTAL														
ADIANTUM PEDATUM.														
	0000114	DITO ACDOMICATOR	ED EIG											
ASPLENIUM	ALLOSO	RUS ACROSTICHO	IDES.											
d angustifolium	1	N. America	1 6											
EBENEUM	1	N. America	1 0											
polypodioides } ··· ··· ··· ··· ··· ··· ··· ··· ···	1	Europe	1 6											
d thelypteroides, syn., Diplazium t	$1\frac{1}{2}$	N. America												
	1	N. America												
ATHYRIUM														
77	2	N. America	2 2 6											
d Michauxii, syn., Asplenium M	$1\frac{1}{2}$	37	1 0											
BOTRYCHIUM	+2		1											
d virginicum	<u>3</u>	N. America	1 6											
CYRTOMIUM, syn., Aspidium	4	2., 1111101100	1 0											
*c.	1	E. Indies	1 0											
V	$egin{array}{cccc} 1 & & \dots & & \\ 1rac{1}{2} & & \dots & & \end{array}$	Japan	1 0											
*FORTUNEII)	1½		,, 1 0											
orientalis }	$1\frac{1}{2}$	Japan	1 0											

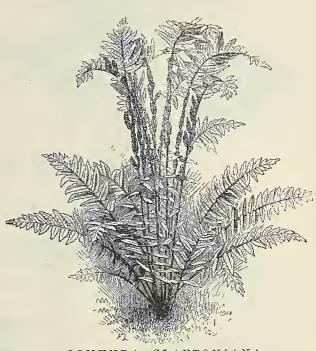
CYSTOPTERIS			Avero	age Heig	ht.					
d bulbifera, syns., Aspid.	b., Poly	podiur		feet.		•••	N. America	•••	s. 1	d. ()
d FRAGILIS (American varie		•	•••	$\frac{3}{4}$		•••	N. America	•••	. 1	0
TENUIS	•••	•••	•••	$\frac{1}{2}$	•••	•••	N. America	•••	. 1	6
DENNSTÆDTIA, syns.,	Dickson	ia. Sit	olobiun	i						
d punctilobula, syns., $\begin{cases} 1 \\ D \end{cases}$	Dicksonia . pilosius	a p.	}	2	•••	,	N. America		. 1	0
LASTREA, syn., Nephroda		,								
*ATRATA, syn., Cyrtomium		•••	•••	2		•••	India		. 1	0
$\left. egin{array}{ll} d ext{ DECURRENS} \\ *decursive-pinnata \end{array} ight\} ext{ syn}$., Polypo	odium	d. p.	2	•••	•••	Japan		. 1	0
FRAGRANS	•••	•••		$\frac{1}{2}$	•••	•••	N. America	•••		
J. Corner M. N.	A very		dwarf,			i Fern.				
d Goldiana, syn., Nephrod d intermedia	lium G.	•••	•••	$2\frac{1}{2}$	•••	•••	N. America N. America	•••		6
MARGINALE	•••	•••	•••	$1\frac{1}{2}$ $1\frac{1}{2}$		•••	N. America	•••		0
*OPACA	•••	•••	•••	$\frac{1}{2}$		•••	China	•••	. 1	0
PROLIFICA	•••	•••		1			Jamaica	•••	,	0
*SIEBOLDII syn., Pycno	ontonia S	1	•••	2	•••					
poaopnyna)	opteris s	••••	•••		•••	•••	Japan	•••	. 1	0
*VARIA	•••	•••	•••	2	•••	•••	China	••.•	. 1	0
ASPLENIUM FON		M.				OCLUMENT OF THE PROPERTY OF TH	EA SENSI	RILLIS	The state of the s	
LOMARIA										
ALPINA)				1			N 7 . 1 . 1		11	0
antarctica \	•••	•••	•••	$\frac{1}{2}$	•••		N. Zealand		1	0
CHILENSIS	•••	•••	•••	3	•••	•••	Chili		2	6
LYGODIUM										
PALMATUM	•••	•••	•••	•••	•••	•••	N. America .		2	6
ONOCLEA										
d SENSIBILIS $obtusiloba$	•••	•••	•••	2	•••		N. America .		1	0
oorasaooa ,	A ver	y hand	some fi	ree-grov	ving sp	ecies.				
				J	5 F					

OSMUNDA	feet. s. d.														
d cinnamomea			$\frac{1\text{eet.}}{2\frac{1}{2}}$			N. America	,		s. 2	6					
$\left. egin{array}{ll} d & { m CLAYTONIANA} \\ interrupta \end{array} ight\} \qquad \cdots$			$2rac{1}{2}$			N. America			2	6					
$\left. egin{array}{ll} d & { m GRACILIS} \\ spectabilis \end{array} \right\} \cdots \qquad \cdots$		•••	$2\frac{1}{2}$	•••		N. America			1	6					
PELLÆA															
*ATROPURPUREA, syns., Plat	yloma a., Pt	eris a.	$\frac{3}{4}$		•••	N. America			1	6					
d *GRACILIS			$\frac{1}{4}$	•••	•••	N. America			1	6					
PHEGOPTERIS															
ALPESTRE			1	•••		N. America			2	6					
d DRYOPTERIS, syn., Polypod	ium d		. 1/2		•••	N. America		• • • •	1	0					
d HEXAGONOPTERA, syn., Pol		(see illu	stratio	n)	1ft.	N. America		• • •	1	0					
d polypodioides, syn., Polyp			1	•••	•••	N. America	•••		1	0					



OSMUNDA CINNAMOMEA.

This is a fine strong growing species, sending up its fertile fronds distinct from the sterile, and is in other respects very different from the British Osmunda regalis.

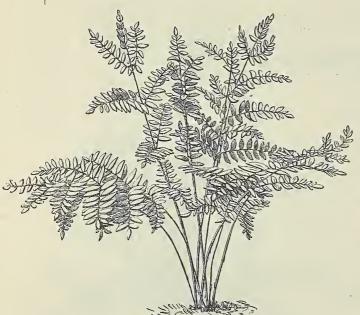


OSMUNDA CLAYTONIANA.

This is undoubtedly the most handsome form of this genus in cultivation, the fronds having a beautiful velvety appearance, being *interrupted* (hence its synonym *interrupta*) by the seed vessels coming between the sterile pinnæ attached to the rachis.

OLYSTICH	UM,	syn.,	Aspidi	um		,							
ACROSTICHOII	DES	•••				$1\frac{1}{2}$		•••	N. America		•••	0	(
	- GR	NDICE	PS					•••	N. America				
	- INC	ISUM				$1\frac{1}{2}$		•••	N. America			1	
BRAUNII, syn	., Ası	oid, acc	leatur	n var. I	Braunii	2	•••	•••	N. America	•••		2	
CONCAVUM, S						2	•••	•••	Japan	•••		2	
MUNITUM						4	•••	•••	California			2	
	1	This is	a fine	vigoro	us Holly	y-fern	like va	riety, v	very hardy.				
IMI	BRICAL	NS				1		•••	N. America		•••	2	
POLYBLEPHA	RUM	•••	•••		•••	2	•••	•••	Japan	•••		2	
*PROLIFERUM	•••	•••	•••			2		•••	Tasmania	•••		2	
*SETOSUM						2		•••	Japan			0	

STRUTHIOPTERIS, syn., Onoclea	Av	verage Heig	ht.					8.	d.
d GERMANICA (The Ostrich Feather Fern)	2	• • •	•••	Europe			1	0
d *ORIENTALIS	•••	$1\frac{1}{2}$			Japan			2	6
PENNSYLVANICA		. 3			N. America		•••	1	6
PENNSYLVANICA RECURVA		2			N. America		• • • •	3	6
A very distinct variety, with the fol	iage r	recurved;	awa	rded F.C	C.C. by the R.I	H. Soci	iety.		

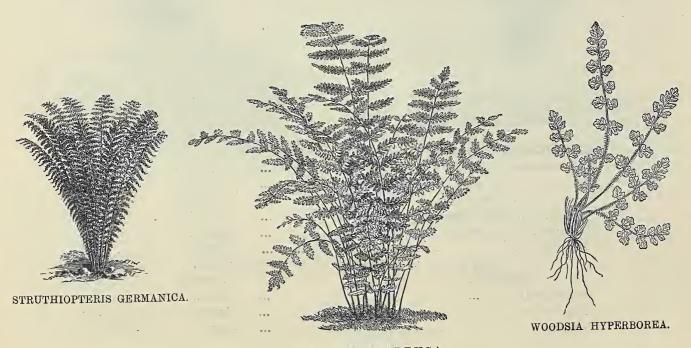


OSMUNDA GRACILIS.

This is a beautiful variety, being somewhat like O. regalis, but much more *graceful* (hence its name), the young fronds also sometimes come up tinted.



PHEGOPTERIS HEXAGONOPTERA.



WOODSIA OBTUSA.

WOODSIA					Average Height.											
						feet.	.,					s.	d.			
$rac{ ext{ALPINA}}{ ext{hyperbore}}$	a }		•••	•••		$\frac{1}{4}$	•••	•••	N. America	•••	•• >	3	6			
GLABELLA		•••	•••	•••	•••	$\frac{1}{2}$	•••	•••	N. America	•••	•••	2	6			
d ilvensis	•••	•••	•••	• • •	•••	$\frac{1}{3}$		•••	Europe	•••		1	0			
d obtusa d perrinian	a }	•••				1			N. America	•••	•••	1	0			
d oregana		•••	•••		•••	1 2			N. America	•••	•••	2	6			
d scopulin	A			••.		1/2			N. America	•••	•••	2	6			
WOODWA	ARDIA															
d angustif d areolata	OLIA)	syn., Lor	inseria	•••	•••	$1\frac{1}{4}$	•••	•••	N. America	•••	•••	1	0			
*Japonica		•••		•••		$l\frac{1}{2}$	•••	•••	Japan	•••	•••					
*Fortuneii			•••			2	•••		Japan		•••	1	0			
RADICANS	• • • •	•••	•••	•••	•••	3	•••	. • • •	S. Europe	•••		1	6			
	AMERIC	CANA	•••	•••	•••	2	• • •	•••	N. America			2	6			
d Virginic	a, syn.,	Anchist	ea V.	•••	•••	2	•••	•••	N. America	•••	•••	1	6			
SELAGIN	ELLA															
Douglass	si					$\frac{1}{6}$	•••	•••	N. America	•••		1	0			
OREGANA			•••		•••	$\frac{1}{4}$	•••	•••	Oregon	•••	•••	1	6			

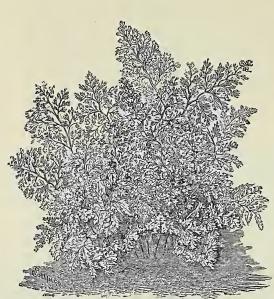
BRITISH FERNS.

The initials or names in brackets indicate the authorities for the names given to the plants. The abbreviations represent as follow: (B.) Barnes; (D.) Druery; (J.) Col. Jones; (L.) Lowe; (M.) Moore; (S.) Stansfield; (W.) Wollaston.

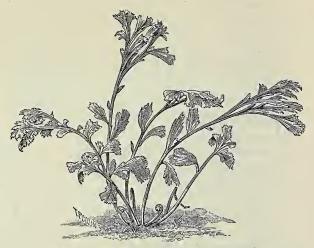
The Ferns marked with an asterisk (*) are not suitable for outside cultivation, except in specially favourable situations. They are better cultivated in greenhouse or frame, and should be protected from front.

F.C.C. indicates that the Ferns so marked have been awarded First Class Certificates by the Royal Horticultural Society, London.

ADIANTUM (Ma	iden-hair Fern)			Aver	age Hei	ght.						
*CAPILLUS VENERI	s		•••		feet.		•••			•••	s ()	d. 6
*	- Cornubiense (M	I.)	• • •	•••	$\frac{1}{2}$			•••	•••		2	6
*	- DAPHNITES (L.)		•••		$\frac{3}{4}$		•••	•••			1	6
*		•••	•••	•••	1	• • •	•••		•••	• • •	2	6
*		•••	•••	•••	$\frac{3}{4}$	•••	• • •	•••	•••	• • •	3	6
*	- MAGNIFICUM (Fra	aser)	•••	• • •	1	• • •	•••	•••	•••	•••	2	6
ALLOSORUS (Cr	yptogramme)											
d crispus (Mountai	n Parsley Fern)				$\frac{1}{2}$			•••	•••		0	6
ASPLENIUM												
ADIANTUM NIGRUM	1 (Black Maiden-h	air Sp	leenwo	rt)	$\frac{3}{4}$	•••	•••		•••	•••	0	6
*			•••	•••	$\frac{3}{4}$		•••		•••	•••		
*	• •		•••	•••	•••	•••	•••	•••	•••	•••	1	6
*	- MICRODON	•••	•••	•••	$\frac{3}{4}$	•••	•••	•••	•••	•••		
GERMANICUM }	(Alternate leaved	Spleer	wort).	See	illustra	tion.	<u>¹</u> 2ft.	•••		•••	3	6
*LANCEOLATUM (La	nceolate Spleenwo	rt)	•••		$\frac{1}{2}$	•••	•••	•••	•••		1	0
* MIC		•••	•••	•••	1	•••		•••	•••	•••		
	A distinct hybrid	, awar	ded a	F.C.C.	by the	R. H.	Societ	у.				



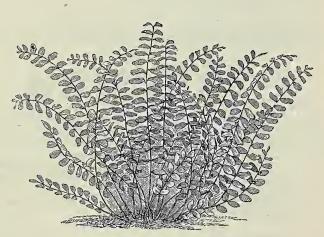
ALLOSORUS CRISPUS.



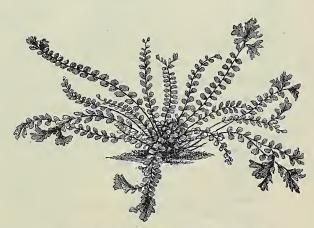
ASPLENIUM NIGRUM GRANDICEPS.



ALLOSORUS CRISPUS.



ASPLENIUM TRICHOMANES.



ASPLENIUM TRICHOMANES CRISTATUM.

ASPLENIUM—Continued.			Ave	rage H	eight.						
*MARINUM (Sea Spleenwort)	•••		**1	feet.		•••		•••		s. 1	d. ()
* IMBRICATUM (L.)	• • •	•••	•••	1	•••		••	•••	•••	1	6
* PLUMOSUM (W.)		•••		1	•••	•••					
RUTA-MURARIA (Rue leaved Spleenv	vort, or	Rue	Fern)	$\frac{1}{3}$	•••			•••		0	6
SEPTENTRIONALE (Forked Spleenwork	rt)	•••	•••	$\frac{1}{2}$			•••			1	6
TRICHOMANES (Black stemmed Splee	enwort))		$\frac{1}{2}$	•••					0	6
* CONFLUENS (M.)	•••	•••	•••	$\frac{3}{4}$		•••	•••	•••		7	6
————— CRISTATUM (M.)	• • •		****	$\frac{1}{4}$				•••		1	6
————— INCISUM (M.)		•••	•••	$\frac{1}{2}$				•••	•••	2	6
———— Moulei (M.)	•••	•••	•••	$\frac{1}{4}$	•••		•••	•••	•••	1.	6
TROGYENSE	•••		•••	$\frac{1}{3}$	•••	•••		•••	••••	1	6
VIRIDE (Green stemmed Spleenwort)	•••	•••	$\frac{1}{2}$	•••	•••		•••	•••	1	0





ASPLENIUM GERMANICUM.

ASPLENIUM SEPTENTRIONALE.

d ATHYRIUM (Lady Fern) (These are all deciduous)														
FILIX-FŒMIN	Α			•••		2						0	6	
	ACROCLAI	DON (M.)	•••	•••		1			• • •			3	6	
	ANGUSTI	FRONS		• • •	•••	2			•••	•••		1	6	
·	APICALE	(M.) (see	illustrati	ion)		$\frac{3}{4}$	•••		•••			5	0	
A dwarf cre	sted variet	ty, and	one of co	onside	rable l	eauty.	It g	grows	about 9	inche	es hig	gh,	$_{ m the}$	
fronds ending in	a cristate l	nead of c	urled seg	ments	i.									
	APPLEBYA	NUM		•••		$1\frac{1}{2}$		•••	•••		•••	2	6	
	BLAKÆ			•••		2			•••	•••	•••			
	CAPITATUM	м	•••	• • •		1		•••	•••		•••	1	6	
·	CAUDIGER	им (В.)	•••	•••		2			•••	• • • •		2	6	
	CLARISSIM	A (J.)	•••	•••		2		• • •	•••	•••				
	CONGEST	J M			•••	$\frac{3}{4}$	• • • •	• • •	•••			1	6	
		CRISTAT	UM (W.)	•••	•••	$\frac{1}{2}$	•••	•••	•••	•••	•••	1	6	

ATHYRIUM—Co	ontinued.			Averag	ge Heig	ht.					8.	d.
FILIX-FŒMIN	NA CONGESTUM GRANDICI	EPS			$\frac{3}{4}$	•••	•••	•••			3	6
	- CONGLOMERATUM .	••	•••	•••	1	•••		•••		•••	3	6
	- conioides (Appleby) .		•••	•••	$\frac{1}{2}$			•••				
	CRISTATUM (S				1/2						1	6
	- CORYMBIFERUM (M.)				2						1	0
	- PURPUREUM		•••	•••	$\overline{2}$	•••	•••	•••	•••	•••	1	0
		L (0.)	•••	***		•••	•••	•••	•••	•••		
	, ,	• • •	•••	•••	2	•••	•••	•••	•••	.***	1	6
	- CRISPUM (M.)	•••	•••	•••	34	•••	•••	•••	•••	•••	1	6
	- CRISTATUM (W.)		•••	•••	1	•••	•••	•••	•••	•••	1	6
	- CRUCIATO-CRISTATUM (Ĺ.)	•••	•••	2	•••	•••	•••	•••	• • •	1.	6
	- CRUCIATO-GRANDICEP	s (Bi	rkenh	ead)	1	•••	•••	•••			5	0
	DELICIA (L.	.)	•••	• • •	1		•••	•••	•••	•••	2	6
	- CRUCIATUM (L.)			220	2						1	6
	10.	•••			1						3	6
			•••	•••	113	• • • • • • • • • • • • • • • • • • • •	•••	•••	•••	•••	2	6
	- CRISTATUM (S.)		•••	•••	4	•••	•••	•••	•••	•••	2	_
					$1\frac{1}{2}$	•••	•••	•••	•••	•••		6
	GRANDICEPS (Birke	nneac	i)	1	•••	•••	•••	•••	•••	2	6
	MULTIFIDUM	•••	• • •	•••	1	•••	•••	•••	•••	•••	2	6
	- DIFFISSO MULTIFIDUM	• • •	•••	•••	$1\frac{1}{2}$	•••	•••	•••	•••	•••	2	6
	- DIGITATUM TENUÆ		•••	•••	2		-	• • •	•••	•••	2	6
	- ECHINATUM (L.)				1	•••					2	6
											_	ŭ
		j										
											The state of the s	AND THE PROPERTY OF THE PARTY O
ATHYRIUM F	ILIX-FŒMINA APICALI	E.		ATH	YRIUI	A FILI	X-FŒM	INA F	FRIZE	LLE		A STATE OF THE STA
	— Edwardsii (L.)	•••		j					FRIZE	LLÆ		S. C.
	— Edwardsii (L.) — congestum minus Ei	•••		j		A FILI	X-FŒM	INA E	FRIZE	LLÆ.		6
	— Edwardsii (L.) — congestum minus Ei — Elworthii (M.)		DS (J.) 	j		•			FRIZE	LLA	. 1	6 6
	— Edwardsii (L.) — congestum minus Ei		DS (J.) 	}	1	•	•••		•••	•••	. 1	6
	— Edwardsii (L.) — congestum minus Ei — Elworthii (M.) — Fieldiæ (M.)	 DWAR 	 		$\frac{1}{2}$					•••	. 1	6
	— Edwardsii (L.) — congestum minus Ei — Elworthii (M.) — Fieldlæ (M.) — nanum multii	OWAR FIDU	DS (J.) 4 (Bir	 kenhe	1 2 $1\frac{1}{2}$ ad) $\frac{3}{4}$. 1	6 6
	— Edwardsii (L.) — congestum minus Ei — Elworthii (M.) — Fieldiæ (M.) — nanum multii — Frizellæ (M.)	OWAR FIDUI	DS (J.)	 kenhe	1 2 $1^{\frac{1}{2}}$ ad) $\frac{3}{4}$					•••	. 1	6 6
	— Edwardsii (L.) — congestum minus Ei — Elworthii (M.) — Fieldiæ (M.) — Nanum multii — Frizellæ (M.) A pret	DWAR FIDUI	DS (J.) I (Bir	kenhe	$\begin{array}{c} 1 \\ 2 \\ 1\frac{1}{2} \\ \text{ad}) \frac{3}{4} \\ 1 \\ \text{arrow} \end{array}$	 fronds.					. 1 . 2 . 1 . 2	6 6 6
	— Edwardsii (L.) — congestum minus Ei — Elworthii (M.) — Fieldiæ (M.) — nanum multii — Frizellæ (M.) A prett	DWAR FIDUI ty var	DS (J.) I (Bir riety, v	 kenhe vith na	1 2 $1\frac{1}{2}$ ad) $\frac{3}{4}$ 1 arrow	 fronds.					. 1 . 2 . 1 . 2	6 6 6 6
A very b	— Edwardsii (L.) — congestum minus Ei — Elworthii (M.) — Fieldiæ (M.) — nanum multii — Frizellæ (M.) A preti — coronare eautiful variety, narrow	DWAR FIDUI ty var	DS (J.) I (Bir riety, v	 kenhe vith na	1 2 $1\frac{1}{2}$ ad) $\frac{3}{4}$ 1 arrow	 fronds.					. 1 . 2 . 1 . 2	6 6 6 6
A very b appearance. I	— Edwardsii (L.) — congestum minus Ei — Elworthii (M.) — Fieldiæ (M.) — NANUM MULTII — FRIZELLæ (M.) A prett — coronare eautiful variety, narrow	DWAR FIDUI ty van (Birkey from	OS (J.) (Bir riety, venhead	kenhe vith na	1 2 1½ ad) ¾ 1 arrow 1 oronal	fronds		 light	 and		. 1 . 2 . 1 . 2 . 1 . 5 gant	6 6 6 6 6 in
A very b appearance. I	— Edwardsii (L.) — congestum minus Ei — Elworthii (M.) — Fieldiæ (M.) — NANUM MULTII — FRIZELLæ (M.) A prett — CORONARE eautiful variety, narrow F.C.C.	DWAR FIDUM ty van (Birkey from	IDS (J.)	kenhe vith no	1 2 $1\frac{1}{2}$ ad) $\frac{3}{4}$ 1 arrow	 fronds.					. 1 . 2 . 1 . 2 . 1 . 5 gant	6 6 6 6 6 0
A very b appearance. I	— EDWARDSII (L.) — CONGESTUM MINUS EI — ELWORTHII (M.) — FIELDIÆ (M.) — NANUM MULTII — FRIZELLÆ (M.) A prett — CORONARE eautiful variety, narrow F.C.C. INA FRIZELLÆ CRISTATU — GRACILE (B	DWAR FIDUM ty van (Birke v from M (J.)	IDS (J.)	kenhe vith no	1 2 1½ ad) ¾ 1 arrow 1 oronal	fronds		 light	 and		. 1 . 2 . 1 . 2 . 1 . 5 gant	6 6 6 6 6 in
A very b appearance. FILIX-FŒM	— Edwardsii (L.) — congestum minus Ei — Elworthii (M.) — Fieldiæ (M.) — Nanum multii — Frizellæ (M.) A prett — Coronare eautiful variety, narrow F.C.C. INA Frizellæ cristatu — Gracile (B	DWAR ty var (Birkey from M (J.)	iety, venhead	kenhe vith na i) ii)	$\frac{1}{2}$ and $\frac{1}{2}$ and $\frac{3}{4}$ arrow $\frac{1}{2}$ oronal $\frac{3}{4}$	fronds		 light	 and		. 1 . 2 . 1 . 2 . 1 . 5 gant	6 6 6 6 6 o in
A very b appearance. H	— EDWARDSII (L.) — CONGESTUM MINUS EI — ELWORTHII (M.) — FIELDIÆ (M.) — NANUM MULTIF — FRIZELLÆ (M.) A prett — CORONARE eautiful variety, narrow F.C.C. INA FRIZELLÆ CRISTATU — GRACILE (B — RAMOSUM (DWAR ty var (Birkey from M (J.)	iety, venhead	kenhe vith na i) ii)	$\frac{1}{2}$ and $\frac{1}{2}$ and $\frac{3}{4}$ arrow $\frac{1}{2}$ oronal $\frac{3}{4}$	fronds		 light	 and		. 1 . 2	6 6 6 6 6 in
A very b appearance. H	— Edwardsii (L.) — congestum minus Ei — Elworthii (M.) — Fieldiæ (M.) — Nanum multii — Frizellæ (M.) A prett — Coronare eautiful variety, narrow F.C.C. INA Frizellæ cristatu — Gracile (B	DWAR ty var (Birkey from M (J.)	iety, venhead	 kenhe vith na i) vith c	1 2 1½ 2ad) ¾ 1 2arrow 1 2 oronal 3	fronds. -shaped	 d crest,	light	 and		. 1 . 2 . 1 . 2 . 1 . 5 gant . 2	6 6 6 6 6 in 2 6
A very b appearance. H	— EDWARDSII (L.) — CONGESTUM MINUS EI — ELWORTHII (M.) — FIELDIÆ (M.) — NANUM MULTIF — FRIZELLÆ (M.) A prett — CORONARE eautiful variety, narrow F.C.C. INA FRIZELLÆ CRISTATU — GRACILE (B — RAMOSUM (DDWAR ty var (Birk v from (J.) irken D.)	on (J.) (Bir iety, venhead head)		1 2 $1^{\frac{1}{2}}$ and) $\frac{3}{4}$ 1 2 arrow 1 coronal $\frac{3}{4}$ 1	fronds. -shaped	 d crest,	light	 and	eleg	. 1 . 2 . 1 2 2	6 6 6 6 6 6 in 2 6
A very b appearance. I	— EDWARDSII (L.) — CONGESTUM MINUS EI — ELWORTHII (M.) — FIELDIÆ (M.) — NANUM MULTII — FRIZELLÆ (M.) A prett — CORONARE eautiful variety, narrow F.C.C. INA FRIZELLÆ CRISTATU — GRACILE (B — RAMOSUM (I) — RAMO-CRIST — FUCIFORME	DWAR ty var (Birk froi M (J.) irken D.)	on (J.) (Bir (Bir (riety, venhead) head)		$\frac{1}{2}$ $\frac{1}{2}$ and) $\frac{3}{4}$ $\frac{3}{4}$ arrow $\frac{3}{4}$ $\frac{3}{4}$ $\frac{1}{1}$	fronds -shaped	 d crest,	light	 and 	eleg	. 1 . 2 . 1 2 2	6 6 6 6 6 in 2 6

FILIX-FORMEN	A GIRDLESTONEII CRIST.	A TOTAL (Birle	feet.	7 64						s.
I ILIA I GIMIN						• • •	•••		• • • •	•••	2
	A distinct, pretty							а 	•••	•••	3
		, depai	upera		steu v	ariety.	F.C.	0.			
	- GLOMERATUM (M.)	•••	•••	$1\frac{1}{2}$	•••	•••	•••	•••	•••	• • •	2
	- GRACILLIMUM (M.)	•••	•••	2	•••	•••	•••	• • •	•••	•••	2
	- GRANDICEPS (M.)	•••	•••	$1\frac{1}{2}$	•••	•••	• • •	•••		• • • •	1
	- Grantæ (M.)	}		$1\frac{1}{2}$							2
	- congestum Paul (W.)))	•••	12	•••	•••	•••	•••	•••	•••	4
	- Howardæ (M.)	•••	•••	$1\frac{1}{2}$	•••	•••			•••	•••	1
	- Iveryanum	•••	• • •	2	•••	• • •	•••				2
	- Kalothrix (L.)	• • •	•••	1	•••	• • • •	• • • •				2
	A beautiful vari	ety, wi	ith pa	ale-green	n, finel	y-cut	fronds.				
	- KILMORYENSIS			$1\frac{1}{2}$	•••						1
	- MINIMUM				•••					•••	1
	- Mooreii			1							1
	- MULTIFIDUM (M.)			2							1
	- PLUMOSUM			$\frac{2}{2}$		•••	•••	•••	•••		3
	- AXMINSTER			-2	•••	••		•••	• • • • • • • • • • • • • • • • • • • •	•••	0
	- AXMINSTERE		1) }	$2\frac{1}{2}$	•••	•••			•••	•••	1
	BARNESII (V			2							5
	DARRESH (V			3	•••	•••	•••	•••		•••	5
	- ——— ELEGANS (Pa			2	•••	•••	•••	•••	•••	•••	3
	A most lovely variety,				o and	···	11 044			•••	0
		_			e, and	specia	шу асы	ractive	'.		
	- ——— Horsfall (•	•••	3	•••	•••	***	•••	• • • •	•••	3
	Jonesii (J.)		•••	2	•••	• • •	• • •	•••	• • • •	•••	3
	- — MULTIFIDUM		• • •	2 .	•••	•••	•••	•••	•••	• • • •	2
	A very handsome	e varie	ty, he	eavily c	rested,	and p	plumos	e.			
· · · · · · · · · · · · · · · · · · ·	- ——— SUPERBUM (D.)		.2			.,		·		
	- POLYDACTYLUM (M.)	•••		$1\frac{1}{2}$				• • •	•••		1
	- PRINCEPS (B.)	•••	• • •	1	•••			• • • •			2
	- Pritchardii (S.)	•••		$1\frac{1}{2}$					•••		3
	CRISTATU	м (S.)	• • •	1							3
	- PULCHERRIMUM (J.)	•••		1		• • •		•••			1
	- RAMO-CRISTATUM	•••		$1\frac{1}{2}$							2
	- REGALE (B.) (F.C.C.)			2			•••				2
	- SETIGERUM (W.)		• • •	2				• • •			1
	CAPITATUM	(Birke	head	1) 1	•••	•••					2
	CRISTATUM (*		11/9		• • •					2
	_ ——— CORYMBIFER		irken	head)	1⅓ft.				• • •		2
	GRANDICEPS				1 1/4 ft.					• • •	5
	A lovely variety, finely					utiful	ly crest	ed. I	F.C.C.		
	- SETIGERUM VICTORIÆ						•••		•••		2
	- SIMPSONII (S.)	`)		, 4							
	- CONGESTUM SIMPSON	(J,)	•••	$\frac{1}{2}$	•••	•••	•••	• • •	•••	•••	1
	- Smithii (L.))									
	- PLUMOSUM SMITH (J.)	}	•••	2	•••	•••	•••	•••	•••	• • •	3
	- STIPATUM (M.))									
	- congestum Paul (J.)	}	•••	$1\frac{1}{2}$	•••	•••	•••	•••	•••	•••	2
		,		2							2
	- THYSSANOTUM	•••	•••	2	•••	•••	•••	•••	•••	•••	1
	manna / C			/.							
	- TODEOIDES (S.)	•••	•••								
	- todeoides (S.) - velutinum (S.) - Vernonæ (Jervis)	•••		$\frac{1}{2}$ $1\frac{1}{2}$		•••		•••			3

77	37			age Hei							s .	d 6
	EMINA VERNONÆ CORY			2	•••	•••	•••	•••	•••	•••	1	
	CRIS		 D:s	il-onho	۰۰۰ مار ۱	•••	•••	•••	•••	•••	2	6
	——————————————————————————————————————			2	au) 🥫			•••	•••	•••	2	6
	VICTORIÆ (M.)	A very har				ietv.	•••	•••	•••	•••	-	•
BLECHN		II very nac		,								
SPICANT	} (The hard Fern)		•••	. j	•••	•••	•••	•••	•••	•••	0	6
	- AITKENIANUM (M.)			$\frac{1}{2}$							2	6
	- APICULATUM (M.)	•••		1/4							2	6
	- concinnum (D.)											
	- DRUERYII (L.)		•••	2	•••	•••	•••	•••	•••	•••		
				$\frac{3}{4}$					•••	•••	1	6
	- CRISPUM (B.)		•••	1	•••		•••		•••		2	6
	- CRISTATUM (M.))		,							ດ	6
	- RAMOSUM (Kinahan)	}	•••	1	•••	•••	•••	•••	•••	•••	2	6
	- IMBRICATUM (M.)		•••	$\frac{1}{2}$	•••		•••	•••		•••	2	6
	- LINEARE (B.)			$\frac{1}{3}$	•••		•••	•••	•••		2	6
	- MAUNDERII		•••	$\frac{1}{2}$	•••	•••	•••	•••	•••			
	- MULTIFIDUM (B.)		•••	$\frac{3}{4}$	•••	•••	•••	•••	•••	• • •		
		Essa &	653	्रे इस्त्री								Z
				TO DE LA CONTRACTOR DE								3 3
LEOHNUM	SPICANT TRINERVI	IA-CORON.	ANS.	Canas	CE	TERAC	CH OF	FICINA	ARUM.			
		IA-CORON	ANS.	A CONTRACTOR OF THE PARTY OF TH	CET	TERAC	CH OF	FICINA	ARUM.			3 5
	- PLUMOSUM (B.))	ANS.	Caris	CE	TERAC	CH OF	FICINA	ARUM.			
	- plumosum (B.) - serratum, Airey's 1)	ANS.	11/2	CE	rerac	SH OF	FICINA	ARUM.		3	
	- plumosum (B.) - serratum, Airey's I - tripinnatum (L.)	No.1 (W.)	•••			rerac	CH OF	FICINA				
	- PLUMOSUM (B.) - SERRATUM, AIREY'S I - TRIPINNATUM (L.) - PROJECTUM (M.)	No.1 (W.)				TERACO		FICINA			1	6
	- PLUMOSUM (B.) - SERRATUM, AIREY'S N - TRIPINNATUM (L.) - PROJECTUM (M.) - MAMOSUM	No.1 (W.)	•••			TERACO	EH OF	FICINA				6
	- PLUMOSUM (B.) - SERRATUM, AIREY'S N - TRIPINNATUM (L.) - PROJECTUM (M.) - RAMOSUM - SERRATUM, AIREY'S N	No.1 (W.)				rerac		FICINA			1	6
	- PLUMOSUM (B.) - SERRATUM, AIREY'S I - TRIPINNATUM (L.) - PROJECTUM (M.) - RAMOSUM - SERRATUM, AIREY'S I - AIREYI (L.)	No.1 (W.) No.2 (W.)		1/2 3/4		rerac		FICINA			1 2 2	6
	- PLUMOSUM (B.) - SERRATUM, AIREY'S I - TRIPINNATUM (L.) - PROJECTUM (M.) - ————————————————————————————————————	No.1 (W.) No.2 (W.)		1 2 3 4 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1		TERACO		FICINA			1 2 2 2	6
	- PLUMOSUM (B.) - SERRATUM, AIREY'S I - TRIPINNATUM (L.) - PROJECTUM (M.) - ————————————————————————————————————	No.1 (W.) No.2 (W.)		1 2 3 4 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1		TERACO		FICINA			1 2 2	6
BOTRYC	- PLUMOSUM (B.) - SERRATUM, AIREY'S N - TRIPINNATUM (L.) - PROJECTUM (M.) - RAMOSUM - SERRATUM, AIREY'S N - AIREYI (L.) - STRICTUM (Frances) - TRINERVIA-CORONAN	No.1 (W.) No.2 (W.) s (M.)		1/2 3/4 1		TERAC		FICINA			1 2 2 2	6
BOTRYC	- PLUMOSUM (B.) - SERRATUM, AIREY'S I - TRIPINNATUM (L.) - PROJECTUM (M.) - ————————————————————————————————————	No.1 (W.) No.2 (W.) s (M.)		1 1 1 2		TERAC		FICINA			1 2 2 2	6
BOTRYC	- PLUMOSUM (B.) - SERRATUM, AIREY'S M - TRIPINNATUM (L.) - PROJECTUM (M.) - RAMOSUM - SERRATUM, AIREY'S M - AIREYI (L.) - STRICTUM (Frances) - TRINERVIA-CORONAN HIUM - (The Moon Wort)	No.1 (W.) No.2 (W.) s (M.)		1/2 3/4 1							1 2 2 2	6
BOTRYC: LUNARIA CETERA	- PLUMOSUM (B.) - SERRATUM, AIREY'S M - TRIPINNATUM (L.) - PROJECTUM (M.) - RAMOSUM - SERRATUM, AIREY'S M - AIREYI (L.) - STRICTUM (Frances) - TRINERVIA-CORONAN HIUM - (The Moon Wort)	No.1 (W.) No.2 (W.) s (M.)		1/2 3/4 1							1 2 2 2	6

OTOTOLIMU	CIS (These a	re all de	ciduo	us) A		Height.			,				
FRAGILIS (The	Bladder Fe	rn) svn. H	Polypoo	dium	feet. $\frac{1}{2}$			•••				s. 0	
Dici		,,			$\frac{1}{2}$							1	
GRA			•••	•••	34	•••	•••			•••	•••	1	
SEMI			•••	•••	$\frac{4}{2}$	•••		•••			•••	1	
MONTANA (The					$\frac{1}{2}$		•••			•••		2	
REGIA)					,							_	
Alpina } (T)	he Alpine Bl	adder Fei	rn)	•••	3	, •••	•••	••• (•••	•••	•••	2	
YMENOPHY	LLUM (Fi	lm y Ferr	ns)										
cupressiforme *Tunbridgens	The Tu	nbridge F	ilmy I	Fern)	1	•••	•••	•••				1	
*WILSONII	`	T3'1 T7			1							7	
UNILATERALE	} (Wilson's	Filmy F	ern)	•••	6	•••	•••	•••	•••	•••	• • • •	1	
These Ferns mus	st either be g	grown in	a very	damp	place	or und	er glas	s. Se	e illust	ration	s, pag	e 58	3.
ACIDITA ATTO	Manhandia	202											
ASTREA, syn.	, wepuroanu	7776											
ÆMULA	The Here con	skad Dual	rlan Fa		11							0	
	The Hay-scer	itea buci	kier re	ern)	14	•••	•••	•••	•••	•••	•••	U	
RECURVA /	m. /T\				1							2	
ÆMULA CRISTA	` '	٠٠٠	•••	•••	1	•••	•••	•••	•••	•••	•;•	5	
DILATATA (The			٠	•••	2	•••	•••	•••	•••	•••	•••	0	
· ·		rier rein)	•••	$1\frac{1}{2}$	•••	•••	•••	•••	•••	•••	2	
CRIS		 TA /T)	•••	•••	$\frac{1}{2}$	•••	•••	•••	•••	•••	•••	1	
	SPATO-CRISTA!		•••	•••	2	•••	•••	•••	•••	•••	•••	_	
CRIS		7	•••	• • •	2	•••		•••		•••	•••	1	
		• •			11							1	
	NDICEPS (D.)	• • •	• • •		1½	• • •		• • •	•••	•••	•••	1	
												1	
LEPI	грота (М.)				1 2		•••					1 2	
EPI SPEC	The Male called "The	 Fern.— Male F	 -There	are th	1 2 cree dis	 stinct f	 orms o he dist	 f _. this l inctive	 Fern, al	 l indis cters (crimin of eac	2 nate	el
——— LEPI ———— SPEC FILIX-MAS PROPINQUA PSEUDO-MAS Filix-mas: The	TABILE (L.) The Male called "The very appare fronds are controlled to the controlle	Fern.— Male F	 There ern."	On ex	1 2 aree dis xamina	ition, t	he dist	inctive	e chara	cters (of eac	2 nate h a	el ıı
	THE Male called "The very appare e fronds are med form.	e Fern.— e Male F nt. of a bright	There ern." ht pale	On execute green	1 2 aree distanting	tion, t remai	he dist	inctive er on t	chara he pla	nt tha	or eac	2 nate h a	
FILIX-MAS PROPINQUA PSEUDO-MAS Filix-mas: The the following nar Propinqua: Th feel with it. Th Pseudo-mas: The the idea of a shu with rich brown s	The Male called "The wery appare e fronds are med form. he fronds are fronds are fronds are fronds are fronds are fronds."	Fern.— Male F nt. of a bright pale gree pale do handson fronds a of a mor	There ern." ht pale een, buwn so ne fornut their e leath	On exercise green	1 2 aree distantina n, and so bi s habi s, and	remaind remaind remaind right a second remainder the second remainder the remainder the remainder remainder the remainder rema	n longors the rowth in other	er on to preced is so systance ers, and	ing, and up, ar	nt that d it he rical as deeper	or eacon the	anate ha a sose soft	t
FILIX-MAS PROPINQUA PSEUDO-MAS Filix-mas: The the following nan Propinqua: Th feel with it. Th Pseudo-mas: T the idea of a shut with rich brown s not infrequently,	The Male called "The wery appare e fronds are med form. he fronds als this is a very ttlecock. Its when undist	E Fern.— Male F nt. of a bright pale greated do handson fronds a of a mor urbed for	There ern." ht pale een, buwn so ne fornut their e leath	On exercise green	1 2 aree distantina n, and so bi s habi s, and	remaind remaind remaind right a second remainder the second remainder the remainder the remainder remainder the remainder rema	n longors the rowth in other	er on to preced is so systance ers, and	ing, and up, ar	nt that d it he rical as deeper	or eacon the	anate ha a sose soft	t
FILIX-MAS PROPINQUA PSEUDO-MAS Filix-mas: The the following nan Propinqua: Th feel with it. Th Pseudo-mas: T the idea of a shut with rich brown s not infrequently,	The Male called "The wery appare e fronds are med form. he fronds als this is a very ttlecock. Its when undist	E Fern.— Male F nt. of a bright pale greated do handson fronds a of a mor urbed for	There ern." ht pale een, buwn so ne fornut their e leath	On exercise green	1 2 aree distantina n, and so bi s habi s, and	remaind remaind remaind right a second remainder the second remainder the remainder the remainder remainder the remainder rema	n longors the rowth in other	er on to preced is so systance ers, and	ing, and up, ar	nt that d it he rical as deeper	or eacon the	anate ha a sose soft	el to
FILIX-MAS Propingua: The feel with it. The pseudo-mas: The idea of a shut with rich brown sent infrequently, possessed plants of the feel with it. FILIX-MAS	The Male called "The very appare e fronds are med form. he fronds are fronds as wery ttlecock. It is when undist with fronds the called "The with fronds as wery the cock."	Fern.— Male Fort. of a bright pale gree pale gree handson frondson frondson of a morurbed for oft. high.	There ern." ht pale een, buwn so ne fornut their e leath	On exercise green	1 2 aree disk amina n, and so but so habits, and axture luces a	remaind remaind remaind right a second remainder the second remainder the remainder the remainder remainder the remainder rema	n longors the rowth in other	er on to preced is so systance ers, and	ing, and up, ar	nt that d it he rical as deeper	or eacon the	anate ha a sose soft	el to
FILIX-MAS Propinqua: The feel with it. The pseudo-mas: The idea of a shut with rich brown substitute brown specification of the feel with it. The pseudo-mas: The idea of a shut with rich brown substitute brown	The Male called "The very appare e fronds are med form. he fronds are fronds as wery ttlecock. It is when undist with fronds the called "The with fronds as wery the cock."	Fern.— Male Fort. of a bright pale gree pale gree handson frondson frondson of a morurbed for oft. high.	There ern." ht pale een, buwn so ne fornut their e leath	On exercise green	1 2 aree disk amina n, and so br s habits, and exture aluces a	remaining the remaining to fight a stem	n long s the rowth : ome di ne other like a	er on to preced is so systance ers, and dwarf	ing, and up, ar	nt that d it he rical as deeper	or eacon the	2 nate h a sose soft	el to
FILIX-MAS Propingua: The feel with it. The pseudo-mas: The idea of a shut with rich brown sent infrequently, possessed plants of the feel with it. FILIX-MAS	The Male called "The wery appare e fronds are med form. he fronds als this is a very ttlecock. It is when undist with fronds (ARNESII (M.) ELPERII (L.)	e Fern.— e Male F nt. of a bright e pale gree of die do e handson s fronds a of a mor urbed for oft. high	There ern." ht pale een, buwn so ne fornut their e leath	On exercise green	1 2 aree disk amina an, and so but so habit so, and atture atture at $\frac{2}{2}$	remain right a t of grant for so than the stem	n long s the rowth : ome di ne othe like a	er on to preced is so systance ers, and dwarf	ing, an winner up, ar l of a Tree-I	nt that d it he rical as deeper	in the	2 nate h a sose soft	ell (de tre elle elle elle elle elle elle elle
FILIX-MAS: The feel with it. The lead of a shut with rich brown shoot infrequently, possessed plants: FILIX-MAS B B SPECT SPE	The Make called "The Make called "The Very appare e fronds are med form. The fronds are fronds as the fronds als with fronds the with fronds (M.) ARNESII (M.) CLLANDIE (M.)	e Fern.— e Male F nt. of a bright of a bright of pale greated die do c handson s fronds a of a mor urbed for oft. high.	There ern." ht pale een, buwn so ne formut their e leath	On exercise green	1 2 aree disk amina n, and so br s habits, and acture a 2 2 1	remaining the remaining to fight a stem	n long s the rowth : ome di ne othe like a	er on to preced is so systance ers, and dwarf	chara the pla ting, an tymmetr up, ar l of a Tree-I	nt that d it he rical as deeper	in the	2 mate h a sose soft agge ver n. 0 1	ell (de tre elle elle elle elle elle elle elle
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FILIX-MAS Propingua: The feel with it. The idea of a shut with rich brown snot infrequently, possessed plants of the idea of a shut with rich brown snot infrequently, possessed plants of the idea of a shut with rich brown snot infrequently, possessed plants of the idea of a shut with rich brown snot infrequently, possessed plants of the idea of a shut with rich brown snot infrequently, possessed plants of the idea of a shut with rich brown snot infrequently, possessed plants of the idea of a shut with rich brown snot infrequently, possessed plants of the idea of t	The Male called "The Male called "The Very appare e fronds are med form. The fronds are medically the fronds are medically the fronds of the	e Fern.— e Male F nt. of a brig. e pale gre to die do handson s fronds a of a mor urbed for offt. high L.) bulle)	There ern." ht pale een, buwn so me form the leath years	On exercise green	1 2 aree distanting and an and so but as habit as, and axture aluces a 2 $2\frac{1}{2}$ $2\frac{1}{2}$	remain right a t of grant for so than the stem	n longons the cowth come dine other like a	er on to preced is so systance errs, and dwarf	chara the pla ting, an tymmetr up, ar l of a Tree-I	nt that d it he rical as deeper	in the	2 mateh a sort of the sort of	ell (de troit de troi
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FILIX-MAS PROPINQUA PSEUDO-MAS Filix-mas: The following nar Propinqua: The feel with it. The Pseudo-mas: The idea of a shut with rich brown sonot infrequently, possessed plants with recommendation of the feel with the idea of a shut with rich brown sonot infrequently, possessed plants with rich brown sonot infrequently with rich brown sonot infrequent	The Male called "The Male called "The Male called "The very appare e fronds are med form. The fronds are constructed in the fronds are constructed in the fronds also with fronds (M.) ARNESII (M.) ELPERII (L.) OLLANDIÆ (M.) ONCINNA (M.) RONKLEYENS ECORA EPAUPERATA IGITATO-JONE	e Fern.— e Male F nt. of a brig. e pale gre to die do handson s fronds a of a mor urbed for 3ft. high L.) oule) E (L.) (Padley)	There ern." th pale een, but so me form the their e leath years	On exercise green	1 2 aree distantina n, and so but s habits, and axture luces a $ 2 $ $ 2 $ $ 1 $ $ 1 $ $ 1 $ $ 1 $ $ 1 $ $ 1 $ $ 1 $ $ 1 $	remain right a t of grant for so than the stem	n longs s the rowth ome di ne othe like a	er on t preced is so systance ers, and dwarf	chara che pla ing, an rmmetr up, ar l of a Tree-I	nt that d it he rical as deeper	in the	2 nate h a ose soft regge ver h 1 2 1 2	ell (de troit de troi
FILIX-MAS PROPINQUA PSEUDO-MAS Filix-mas: The following nar Propinqua: The feel with it. The Pseudo-mas: The idea of a shut with rich brown sonot infrequently, possessed plants with rich brown sonot infrequently with rich brown sonot infrequently with rich brown sonot infrequently with rich brow	The Make called "The Make called "The Make called "The very appare e fronds are omed form. The fronds are one fronds as the fronds also has is a very ttlecock. It is when undist with fronds (M.) ELPERII (L.) OLLANDIÆ (M.) ONCINNA (M.) RONKLEYENS: ECORA GITATO-JONE IGITATA (L.)	e Fern.— e Male F nt. of a brig. e pale gre to die do handson s fronds a of a mor urbed for 3ft. high. in cultiple (L.) cultiple (Padley) ssii (B.)	There ern." th pale een, but so me form their e leath years	On experience of the control of the	1 2 aree disk amina an, and so but s	remain right a t of grant for so than the stem	n long s the rowth me di ne othe like a	er on terred is so systance ers, and dwarf	chara che pla ing, an rmmetr up, ar l of a Tree-I	nt that d it he rical as deeper	in the	2 nate h a soft soft a soft soft a soft soft soft a soft soft soft soft a soft soft a soft soft a soft a soft a soft soft a soft	te e
FILIX-MAS PROPINQUA PSEUDO-MAS Filix-mas: The following nar Propinqua: The feel with it. The Pseudo-mas: The idea of a shut with rich brown sonot infrequently, possessed plants of the feel with it. FILIX-MAS B. B. B. B. B. C. C. D. D. D. FILIX-MAS FILIX-MAS FILIX-MAS FILIX-MAS FILIX-MAS FILIX-MAS FILIX-MAS FILIX-MAS	The Make called "The Make called "The Make called "The very appare e fronds are omed form. The fronds are one fronds as the fronds also has is a very ttlecock. It is when undist with fronds (M.) ELPERII (L.) OLLANDIÆ (M.) ONCINNA (M.) RONKLEYENS: ECORA GITATO-JONE IGITATA (L.)	e Fern.— e Male F nt. of a bright e pale gree of die do c handson s fronds a of a mor urbed for 3ft. high. L.) Cultiple (L.) (Padley) ESII (B.)	There ern." th pale een, but so me form their e leath years	On experiments of experiments of experiments on experiments of experiments of experiments on experiments of exp	1 2 aree disk amina an, and so but so shabit so, and axture at the second seco	remain right a t of grant for so than the stem	n longs s the rowth ome di ne othe like a	er on terred is so systance ers, and dwarf	chara che pla ing, an rmmetr up, ar l of a Tree-I	nt that d it he rical as deeper	in the	2 nate h a soft soft a soft soft a soft soft soft a soft soft soft soft a soft soft a soft soft a soft a soft a soft soft a soft	otte esserie

\mathbf{L}_{A}	STREA-Co		Avera	ge Heig feet.	ght.									
	FILIX-MAS	GRACILE (J.)					•••		•••				s. 2	d. 6
		GRANDICEPS (Sim	ı)	•••	•••	3		•••	•••		•••		1	6
		Ingramii		•••	•••	$2\frac{1}{2}$						•••	2	6
		IVERYANA (M.)	•••		•••	2	•••						1	6
		LINEARE (W.)	•••	•••		2							1	6
		PUMILA (M.)	•••			1	•••		•••	•••	•••		2	6
		RETICULATA		•••	•••	2			• • •			•••	2	6
		TYERMANNII	•••	•••	•••	2	•••	•••	•••		•••	• • •	1	6
	PROPINQUA	(W.), syn., ABBRE	VIATA	•••	•••	2	•••					•••	1	0
			CRISTA'	ra (M.))	2	•••		•••	•••			2	6
			GRANI	DICEPS	(B.)	1	•••	•••				•••	2	6
		PRODUCTA	•••	•••	•••	$1\frac{1}{2}$	•••	•••	•••	•••			2	6
		PULCHELLA	•••	•••	•••	$1\frac{1}{2}$	•••	•••	•••	•••	•••	•••	2	6

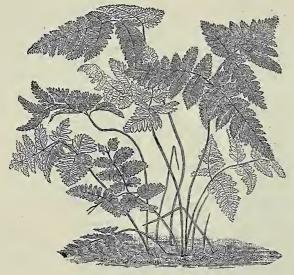


LASTREA PSEUDO-MAS CRISTATA FIMBRIATA.

PSEUDO-MAS (W.) FILIX-MAS PALEACEA (D	on)	3	• •••	•••	•••	 •••	1	0
CONCHATA	•••	$1\frac{1}{2}$	·	•••	•••	 •••	2	6
CRISPA (B.)		· 1	•••	•••	•••	 	1	6
CRISTATA								
ANGUSTATA	•••	1	• • • •	•••	•••	 •••		
GRACILE (Lyell)		1	•••	•••	•••	 •••	1	6
POLYDACTYLA	• • • •	$1\frac{1}{2}$	•••	•••	•••	 •••	3	6
CRISPULA		2	•••	•••	•••	 •••	1	0

F	DULLI	LSII	FERI	.V.D.							
۵											
LASTREA—Continued.		Averag		ıt.							
PSEUDO-MAS CRISTATA (M.)			feet. $2\frac{1}{2}$							s. ()	d. 6
			$2\frac{1}{2}$	•••	•••	•••				1	6
——————————————————————————————————————			2	•••	•••	•••	•••	***		_	
———— PLUMOSISSIMA (L.)	/	}	$1\frac{1}{2}$	•••	•••	•••	• • •	•••	•••	1	6
A very handsome variety, fimbriate	d, cres	ted, m	uch lig	hter in	appea	гансе	than d	ristata,	and	mo	re
compact in habit. It is one of the prett	iest B	ritish]	Ferns,	and m	akes a	good :	house	plant.	F.C.		
PSEUDO-MAS PLUMOSISSIMA NOVÆ	•••	•••	1	•••	•••	•••	•••	•••	• • •		
Crouchii		•••	$1\frac{1}{2}$	•••		•••	•••	•••	•••	1	6
		•••	$1\frac{1}{2}$	•••		•••	•••	•••	•••	1	6
———— PINDERII (M.)		•••	2	•••	•••		•••	•••	•••	1	6
—— —— POLYDACTYLA (Dadds)	•••	•••	2	•••		•••		• • •	•••	1	6
	ECK	• • • -	3	• • • •		•••	•••	•••	• • •	2	6
WILLS			3					•••		1	6
RAMO-CRISTATA (J.)	•••		$2\frac{1}{2}$		•••		•••	•••		1	6
———— RAMOSISSIMA (М.)		•••	2	•••	•••	•••	•••	•••	•••	5	0
RAMULOSISSIMA (W.)	•••	•••	$\frac{1}{3}$	•••	•••	* **	•••	•••			
———— Stablerii (M.)	•••		3	•••	•••	•••	•••	•••		1	6
MONTANA) oreopteris } (The Mountain Buckler	Forn	STILL	Polyn	odium	m Pa	lynod	ium o			0	6
)	rern),	, ѕушъ.,			111., 10	ıy pou.	iuiii o.	•••	•••		
———— Barnesii (M.)	11		1½	•••	•••	 h :.		***	•••	3	6
A new and very pretty var	iety, ti	ne iron			rower t	папп	n the t	ype.		2	c
——— congesta (B.)	•••	•••	11	•••	***	•••	•••	•••	•••	3	6
	•••	•••	$1\frac{1}{2}$	•••	•••	•••	•••	•••	•••	3	6
——————————————————————————————————————		•••	$1\frac{1}{2}$	•••	•••	•••	•••	•••	•••	2	6
		•••	$\frac{1\frac{1}{2}}{1}$	•••	•••		•••	•••	•••	E	0
REMOTA (M.)	•••	•••	1	•••	•••	•••	•••	•••	•••	5 1	0
RIGIDA (The rigid Buckler Fern) SPINULOSA	•••	•••	$1\frac{1}{2}$	•••	•••	•••	•••	•••	•••	0	6
J. marriage M. M. Marriage M.	•••	•••	_	•••	••	•••	•••	•••	•••	U	U
palustris (The Marsh Fern), s	yn., Po	olypodi	um t.	$1\frac{1}{2}$	•••	•••	•••	•••	•••	1	0
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OSMUNDA REGALIS.		EN DE	Sir.	3	Trans		w	_			
			- (42)	C. Carly	Care May	J. Millery	~ ~~	>			
		09	SMUN	DA RE	EGALIS	CRIS	STATA				
OPHIOGLOSSUM		٥,	Jan 0 211								
VULGATUM (The Adder's Tongue)			1						• • •		
		•••	3			•	,,,				
OSMUNDA										7	0
d regalis (The Royal Fern)	•••	• • •	3	•••	•••	•••	•••	•••	•••	1	6
d regalis cristata	•••	•••	$\frac{2}{3}$	•••	•••	•••	•••	•••	•••	T	U
UNDULATA	3.1	•••	J	•••	•••	•••					

P	DLYPODIUM Average Height.		
d	ALPESTRE (The Alpine Polypody), syns., Aspidium a., Phegopteris a., Pseudathyrium a	s. 1	d. 6
	——— FLEXILE 1	2	6
d	DRYOPTERIS (The Oak Fern) $\frac{3}{4}$	0	6
d	PHEGOPTERIS (The Beech Fern) $\frac{3}{4}$	0	6
	ROBERTIANUM calcareum (The Limestone Polypody), syn., Phegopteris R., \(\frac{3}{4}\)ft	0	6

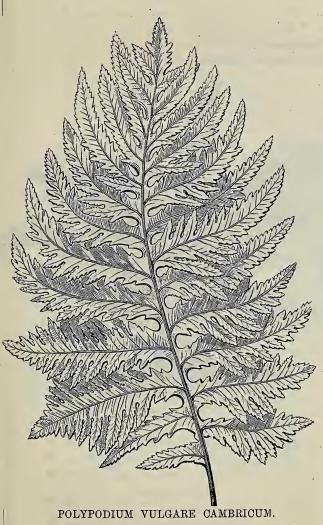




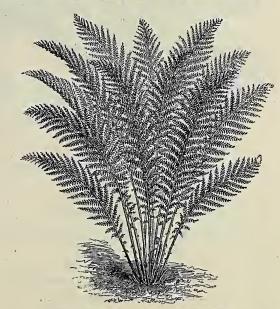
POLYPODIUM DRYOPTERIS.

	VULGARE (The Common Polypody)		-1	•••	•••		•••		•••	0	6
	——— BIFIDO-CRISTATUM (Mapplebeck))	1	•••		•••		•••	•••	3	6
	———— BIFIDUM (Frances)		1	•••	•••			•••			
	CAMBRICUM (The Welsh Polypoo	dy) (Linnæus) 1ft.				•••		1	6
	PRESTONII (B.)	,	1	•••	•••		•••		•••	2	6
	Cornubiense (M.)		1							2	6
	ELEGANTISSIMUM (S.)	•••	1	•••	•••	•••	•••	•••	•••	~	Ü
	———— ELEGANTISSIMO-MULTIFIDUM	•••	1	•••	• • •		•••		•••	3	6
	———— Cornubiense Fowlerii (L)	}	$\frac{3}{4}$							2	6
	TRICHOMANOIDES (Backhouse)	<i>ξ</i>	4	•••	•••	•••	•••	•••	•••	2	U
	CRISTATUM (M.)	•••	1	•••	•••	•••	•••	•••		2	6
	——— GRANDICEPS (Foster)	•••	1	•••	•••	•••	•••	•••	•••	3	6
	——— GRANDICEPS Mrs. Fox (B.)	•••	1	•••	•••	•••	•••	•••	•••	3	6
	——— MULTIFIDO-CRISTATUM (M.)	•••	1			•••					
	———— GRANDICEPS PARKER (W.)	•••	•	•••	•••	•••	•••	• •••	•••		
	OMNILACERUM (M.)	•••	1	• • •	•••	•••	•••	•••	•••		
	PLUMOSUM	•••	1	•••	•••	•••	•••	•••	•••		6
	PULCHERRIMUM (S.)	•••	1	•••	•••	•••	•••	•••	•••	3	6
	——— SEMILACERUM (The Irish Polyp	ody)	(Link)	l⅓ft.	•••	•••	•••	•••	•••	2	6
	OT SZORITOTTINE										
•	DLYSTICHUM, syn., Aspidium			261						7	^
	ACULEATUM (The Prickly Shield Fern), se	е ш	istration	ZIU.	•••	•••	•••	•••	•••	1	U
	ABBOTTÆ (L.)	•••	2	•••	•••	•••	٠	•••	•••	3	6
	ANGULARE GRANDICEPS ABBOTT (J.)		1.1							n	C
	ACULEATUM CIRCUMGLOBATUM (L.)	•••	$1\frac{1}{2}$ 2	•••	•••	•••	•••	•••		3	6
	——————————————————————————————————————	•••		•••	•••	•••	•••	•••	••••	2	c
	———— HONORABILE (L.)	•••	$1\frac{1}{2}$	•••	•••	•••	•••	•••	• • •	3	0

POLYSTICHUM—Continued.	Avera	$ge\ He$ feet.	eight.						s.	d.	
ACULEATUM POLYDACTYLUM	•••		2	. • • •		••••	•••				6.
———— PULCHERRIMUM (J.)	•••		$2\frac{1}{2}$	•••	•••		•••		. •••	7	6
——— scopæ (L.)	•••	•••	1	′		•••				3	6
ANGULARE (The soft Prickly Shield	l Fern)		2	•••		•••,				0	6
ACUTILOBUM (W.)		•••	2	•••		•••	•••	• • •		2	6
———— FoxII	•••	•••	2	•••						1	6
CAPITATUM	•••	•••	1	•••	• • •	•••			•••		
CRISTATUM	ı (Bir.k	enhead	$1\frac{1}{2}$		•••		•••	• • •		1	6
		•••	1	•••			•••	'	•••		
VIVIPARUM	(Mrs.	Grant)	$1\frac{1}{2}$	•••		•••	•••	•••	•		







						TODI	PITOTI	OM A	COUR	TI	O INT
POLYSTICHUM—Continued.	* **										
ANGULARE BAYLIÆ (M.)		.,.	$1\frac{1}{4}$	•••	. • . •		•••	_:-:-		1_	0
concinnum (M.)		•••	2	•••	. • • •						
congestum (W.)		•••	1	•••		· · · · · ·		<u></u>		2	6
	NDICEPS	•••	1	•••							
	DACTYLUM	•••	$\frac{3}{4}$.,	1:*	•••	• • •			3	6
CRISTATO-GRACIL	E GRAYII,		$1\frac{1}{2}$. • • •	•••	•••	• • •	•••		1	6
<u> </u>	- Jackson ((J.)	$1\frac{1}{2}$,•••			:::.	•••	• • •	1	6

OLYSTICHUM—Continued.		Avera	ge Heig	ght.						s.	,
ANGULARE CRISTATO JONESII	•••	•••	12	•••			•••			2	
CRISTATUM (M.)		•••	$1\frac{1}{2}$	•••	•••	•••	•••	•••		1	
BARN	ESII	•••	$1\frac{1}{2}$				•••	•••	•••	2	
MAJUS	s (B.)	•••	2	•••	•••	•••	•••	•••	•••	2	
Woll	ASTON'S No.	. 10	$1\frac{1}{2}$	•••	•••	•••	•••	•••		2	
——————————————————————————————————————	ATUM		$1\frac{1}{2}$	•••			•••		• • • •		
———— DECOMPOSITUM FR	ondosum (I	ı.) .	2	•••	•••			•••	•••	1	
———— DIVISILOBUM (Sene	ex)	•••	$1\frac{1}{2}$		•••	• • •	•••		•••	1	
ACUTU	им No. 1 (J.)	$1\frac{1}{2}$	•••		•••	•••	•••		2	
CRISTA	тим (L.)	•••	$1\frac{1}{2}$			•••		•••		2	
DECOR	им (Л.)	•••	2	•••	•••	•••		•••		3	
DENSU	им (Ј.)	•••	2		•••			•••		3	
LAXU	и (J.)	•••	2	•••	•••	•••	:	•••		3	
PLUMO	SUM	•••	2	•••	•••		•••	•••		5	
PLUM	OSISSIMUM	(Birk	enhea	d) 1\frac{1}{2}							



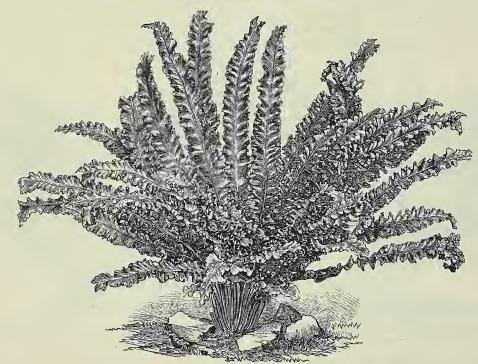


POLYSTICHUM ANGULARE GRANDICEPS. POLYSTICHUM LONCHITIS (The Holly Fern). ———— FRONDOSUM (J.) 2 1

	- FRONDOSUM	(J.)	•••	•••	•••	2	•••	•••	•••	•••			1	6
	- FOLIOSO-CRI	SPUM ((J.)	•••	•••	$1\frac{1}{2}$			•••	•••	•••		3	6
		MULT	FIDU	и (J.)	•••	2	•••		•••	•••	•••	• • •	3	6
	- GRACILE (W	.)	•••	•••	•••	1	•••	•••	•••	•••	•••	•••	2	6
	- GRANDICEPS	, ,	от (W.)}	•••	11	•••			•••	•••	•••	2	6
	- GRANDIDENS	s (L.)	•••	•••	•••	1	•••	•••	•••	•••		•••	1	6
	- IMBRICATUM	(Iver	y)	•••	•••	1	•••	•••		•••	•••	•••	2	6
		(J.)	•••		•••	$1\frac{1}{2}$	•••	•••	•••		•••	•••	3	6
	- INCISUM	•••	•••	•••	•••	1	•••	•••		•••	•••		1	0
	- LINEARE (M	1.)	•••		•••	$1\frac{1}{2}$					••••		2	6
	- LONGIPINNU	JLUM	•••		•••	1		•••		•••	•••		3	6
	- LYALLII	•••	• • •	•••	•••	$\frac{1}{2}$	•••	•••		•••	•••	•••	3	6
	- MULTILOBUM	f(W.)	•••	•••	•••	2	•••	•••	•••		•••	•••	3	6
		DECO	RUM	•••	•••	$1\frac{1}{2}$	•••	•••		•••	•••	•••	.3	6
		OVAT	TP.			11							2	6

			~							
POLYSTICHUM— Continued.	Avero	age He	ight.							
ANGULARE MULTILOBUM DENSUM (J.)		feet.							s. 3	d. 6
——————————————————————————————————————			$\frac{1}{2}$	•••	•••	•••	•••	•••	J	0
——————————————————————————————————————	шеац	2	12	•••	•••	•••	•••	•••	2	6
	•••		•••	•••	•••	•••	•••	•••	1	6
PARVISSIMUM (M.)	•••	1 2	•••	•••		•••	•••	•••		6
———— PATEYII (L.)	•••	$1\frac{1}{2}$	•••	•••	•••	•••	•••	•••	3	
———— PERSERRATUM (W.)	 (T.)	$1\frac{1}{2}$	•••	•••	•••	•••	•••	•••	1	6
———— PLUMOSO-DIVISILOBUM GRACILI	š (L.)	2	•••	•••	•••	•••	•••	•••	_	
TENUÆ (Fox)	•••	1	•••	•••	•••	•••	•••	•••	3	6
PLUMOSUM (W.)	•••	2	•••	•••	•••	•••	•••	•••	2	6
Моглі	•••	2	•••	•••	•••	•••	•••	•••	5	0
——————————————————————————————————————	•••	2	•••	•••	•••	•••	•••	• • •	3	6
———— POLYDACTYLUM (J.)	•••	$1\frac{1}{2}$	• • •	•••	•••	•••	•••	•••	2	6
(W.)	•••	$1\frac{1}{2}$	•••	•••		•••	•••	•••	1	6
PROLIFERUM (M.)	•••	2				•••			1	0
CRAWFORDIANUM	(J.)	2		•••		•••	•••	,	1	6
DENSUM	•••	1					•••		1	0
HENLEYÆ (M.)		11/2							1	0
Wollastonii (M.		- 2	***							
ACUTILOBUM WOLLASTONII (L.		2		•••	• • •	• • •	•••	•••	1	6
SCOLOPENDRIUM VULGARE.						V	SCOLOULGA			
SCOLOPENDRI	UM VU	ULGA	RE CO	OLING	II.					
DOL WOMEGITIM Continued		•								
POLYSTICHUM—Continued. ANGULARE REMOTO-DECURRENS (Moly)		1							2	6
ANGULARE REMOTO-DECURRENS (MOTY) ———————————————————————————————————		2				•••	•••		2	6
		1					•••		2	6
———— STIPITATUM (M.)	•••			•••	•••	•••		•••	2	6
TRIPINNATUM PADLEY (J)	•••	$1\frac{1}{2}$	•••	•••	•••	•••	•••		2	6
TALBOT	•••	$1\frac{1}{2}$	•••	•••	•••	•••	•••		2	6
ELEGANS	•••	$1\frac{1}{2}$	•••	•••	•••	•••	•••	•••	2	6
———— VENUSTUM (M.)	•••	2	•••	•••	•••	•••	•••	•••		
CRISTATUM	•••	$1\frac{1}{2}$	•••	•••	•••	•••	•••	•••	2	6
——— WAKELEYANUM (M.)	•••	$1\frac{1}{2}$	•••	•••	•••	•••	•••	•••	2	6
LONCHITIS (The Holly Fern)	•••	1	•••	•••	•••	•••	•••	•••	1	6
PSEUDATHYRIUM										
The state of the s		1							1	6
d alpestre, syn., Polypodium a	•••	1	•••	•••					2	6
FLEXILE	•••	ı	•••	•••	•••	•••		•••	Ī	
PTERIS										
d AQUILINA (The Brake Fern)		3	•••		•••			•••	0	6
———— CONGESTA		2	•••				•••		2	6
d ———— CRISTATA (M.)		2	•••					•••	1	6
VALIDIALA (III.)	•••									

SCOLOPENDRIUM	A verage	e Heig	ht.						s.	d.
VULGARE (The Hart's Tongue Fern)	•••	1	****	• • •		•••	•••		0	$\tilde{6}$
———— CAPITATUM (Atkinson)		$\frac{3}{4}$		·	•••		•	• • • •	2	6
———— COCHLEATUM MULTIFIDUM (L.)		. 1		•••		•••			2	6
———— CONGLOMERATUM (Ward)	•••	$\frac{3}{4}$		• • • •	•••,			•••	2	6
———— CONGREGATUM (L.)	•••	$1\frac{1}{2}$		•••	•••	•••	•••	•••	2	6
CONTRACTUM		1/2	•••	•••	•••				1	6
Coolingii (L.)		$\frac{1}{2}$,	2	6
CORNICULATUM (L)		1				•••		•••		
CORNUTUM		$\frac{3}{4}$							1	6
	•••	1	***		•••				1	0
Bowdonii	••	$1\frac{1}{2}$			•••			• • • •	2	6
——————————————————————————————————————	•••	2		•••		•••		•••	3	6
——————————————————————————————————————	•••	1	•••	•••	•••	• • •	•••		2	6
FERTILE (Fox)	•••	1	•••	•••	•••		•••	• • •	2	6
———— FIMBRIATUM (S.)	•••	1	•••	•••	•••		•••		3	6
A very handsome variety. The	he edges	s are	deeply f	rilled	and fin	abriate	d.			



SCOLOPENDRIUM VULGARE CRISPUM FIMBRIATUM.

VULGARE CRISPUM JONES (L.)	•••	•••	2	•••	•••		•••	•••	•••		
MAJUS			2	•••	•••		•••	•••		2	6
———— ——— MAXIMUM	•••	•••	2	•••	•••	•••	•••	•••	•••	3	6
————— MURICATUM	•••	•••	1	•••	•••	•••	•••	•••	•••		
	•••	•••	2	•••	•••	•••	•••			2	6
STABLERÆ (L.)	•••	• • •	2	•••	•••	•••	•••		•••	2	6
WILLS (L.)	•••	•••	2	•••	•••	•••	•••	•••	•••	3	6
CRISTATUM (M.)	•••	•••	$\frac{1}{2}$	•••	•••	•••	•••		• • •	2	6
CRISTULATISSIMUM	•••	•••	$\frac{3}{4}$	•••	•••			•••			
———— CRISTULATUM (Cropper)	•••	•••	1	•••	•••	•••	•••	•••	•••	2	6
DENSUM (L.)			}	1 64						1	e
CONGLOMERATUM DENSUM	KELV	WAY (J.) }	316.	•••	•••	•••	•••	•••	Т	0

The most dense variety of this family in cultivation; the fronds being small, dense, and crested, form plants almost like round green balls.

SCOLOPENDRIUM—Continued.		Avera	ige Heig	ght.				s.	d.		
VULGARE DIGITATUM (W.)		•••	$1\frac{1}{2}$	•••	•••	•••	•••	•••	•••	1	6
MAJUS .		•••	1	•••				•••	•••	3	6
ENDIVÆFOLIUM (W.)										7	6
LACERATUM (M.)	•••	•••	1	. • • •	•••	•••		•••	•••	1	U
EXOMARE (L.)		•••	1				•••		•••	1	6
——— FISSUM (L.)			1							1	6
CRISPO-FISSUM (B.)	•• •••	•••	1	•••	•••	•••	•••	•••	•••	1	U
GRANDICEPS (J.)		•••	1		•••	•••	•••	•••	•••	1	6
		•••	$\frac{1}{2}$	•••	•••		•••	•••	•••	1	6
——— KERATOIDES (L.)		•••	1		•••	•••				1	6
MARGINATUM (M.)			1				•••	•••	•••	2	6
MULTICEPS			1		•••	•••	•••	÷	•••	2	6
TENUÆ (M		•••	1	•••	•••	•••	•••	•••		1	6
——— моон <i>ж</i> (L.)			•••					•••		2	6



SCOLOPENDRIUM VULGARE CRISTULATUM.

VULGARE	MULTIFIDUM	•••	1	• • •	•••	•••				1	6
	MURICATO-MARGINATUM (L.)	•••	1								
	RUGOSO-MARGINATUM (W.)	•••	_	•••	•••	•••	•••	•••			
	MURICATUM BLANDUM (L.) (F.C.	C.)	1	•••		•••	•••				
	————— CRISTATUM (J.)		1	•••	•••	•••				2	6
		.C.)	1	•••	•••	•••	•••		· · · ·		
	NEPENTHESOIDES (L.) (F.C.C.)	•••	•••	•••	•••	•••	•••				
	PERAFERENS ROSETTUM (L.) (F.C.	!.C.)	•••	•••	•••		•••	•••			
	RAMO-CRISTATUM (Clapham)	•••	$\frac{3}{4}$	• • •	•••	•••	•••	•••		2	6
	MAJUS (J)	•••	$1\frac{1}{2}$	•••	•••	•••	•••		• • •	3	6
	variety, raised by the late Col. J	ones.	It has	s bold,	heavil	y-crest	ted fro	nds, a	ud ma	ikes	a
fine specimer	1.										

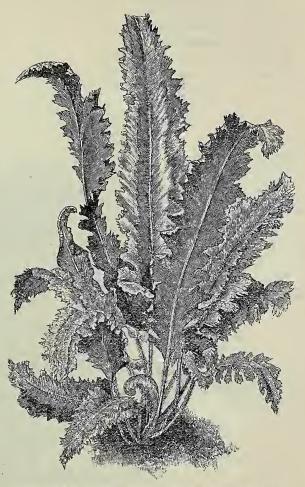
SCOLOPENDRIUM—Continued.	Avera		at.							d.
VULGARE RAMO-DIGITATUM (Bolton)	•••	feet.		•••	•••	•••	•••	•••	1	
RAMO-MARGINATUM (Clapham)		1		•••			•••		2	6
RAMOSISSIMUM (L.) (F.C.C.)	•••	•••	•••	•••	•••	••••	•••	•••	2	6
RUGOSA SPIRALE (L.)	•••		•••		•••	***	•••			
SAGITTATO CRISTATUM (Clapha	m)	1	•••	•••	•••	•••	•••	•••		
SCALARIFORME	•••	$\frac{1}{2}$	•••	•••	•••				3	6



SCOLOPENDRIUM VULGARE RAMO-CRISTATUM MAJUS (JONES).



SCOLO PENDRIUM VULGARE RAMO-MARGINATUM.



SCOLOPENDRIUM VULGARE SCALARIFORME.

VULGAR	E SUPRA	LINEAT	TUM	•••	•••	•••	1	•••	•••	•••	•••	•••		2	6
			М	URICAT	UM	•••	1	•••	•••	•••	•••			2	6
		LATUM		•••			1					•••	•••	1	6
			COCHLI	EATUM	(L.)	•••	•••		•••		•••	•••	•••		
	- VELO	ısıı (M	.)	••••	•••		,	•••			•••	•••	•••	2	6
WOODS	[A														
ALPINA)						1								_
HYPERBO	REA	•••	•••	•••	•••	•••	\$	•••	•••	***	***	•••	***	3	6
ILVENSIS		•••		•••	•••	•••	$\frac{1}{2}$			•••		•••		1	0

GREENHOUSE FERNS AND SELAGINELLAS IN STOVE AND COLLECTIONS.

W. and J. BIRKENHEAD'S Selection.

			•		•	£	s.	d.
100	Plants	in 100	different species	and varieties,	W. & J. B.'s selection	2	10	0 and upwards.
100	Do.	50	do.	do.	do.	1	10	0 do.
50	Do.	50	do.	do.	do.	1	1	0 do.
50	Do.	25	do.	do.	do.	0	15	0 do.
25	Do.	25	do.	do.	do.	0	7	6 do.
12	Do.	. 12	do.	do.	do.	0	3	0 do.

The prices here quoted are very low, and are for small healthy plants; at higher prices we can supply larger plants and choicer kinds.

HARDY EXOTIC AND BRITISH FERNS IN COLLECTIONS.

W. and J. BIRKENHEAD'S Selection.

									S.		
100	Plants in	100	Species	and	Varieties,	W. & J.	Birkenhead's selection,	3	15	0	and upwards.
100	Do.	50		do.		do.	do.	2	5	0	do.
50	Do.	50		do.		do.	do.	1	5	0	do.
50	Do.	25		do.		do.	do.	. 0.	17	6	do.
25	Do.	25		do.		do.	do.	0	8	6	d o.
12	Do.	12		do.		do.	do.	0	3	0	do.

When a large collection is required, irrespective of number of varieties, we will quote special price on application; and when choicer kinds or larger plants are required than could be included in collections at above prices, we shall be pleased to supply them at proportionately higher rates.

FERNS FOR ROCKERIES. HARDY

We have an immense number of the commoner and most easily grown British Ferns in the open ground, of which we can supply STRONG WELL-ROOTED PLANTS in 6 of the larger, and, if desired, 4 of the smaller growing species, at 20/- per hundred; extra strong, 30/-

and 40/- per hundred.

N.B.—Much disappointment is experienced by those who are tempted to purchase recently collected plants because offered at low prices; these in many cases are almost destitute of roots, and are often very small, as a consequence of which they do very little good for a long time, and often do not grow at all. It is far better to pay a little more and have such plants as are offered above, which are certain to give satisfaction.

COMPOST RECOMMENDED FOR BRITISH FERNS.

strong fibrous loam. OPHIOGLOSSUMS)

ATHYRIUMS) strong fibrous loam, leaf mould, sand. BLECHNUMS S

POLYSTICHUMS strong fibrous loam, leaf mould, sand, and a little peat.

OSMUNDAS—loam and peat principally, a little leaf mould and sand added.

HYMENOPHYLLUM—loam, leaf mould, peat, and broken sandstone.

Allosorus-loam, with broken slate or grit, and a little leaf mould.

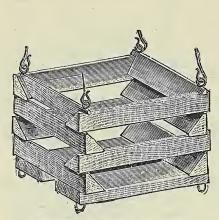
ASPLENIUMS

loam, peat, leaf mould, sand, and a little old mortar broken small. CYSTOPTERIS SCOLOPENDRIUMS CETERACH

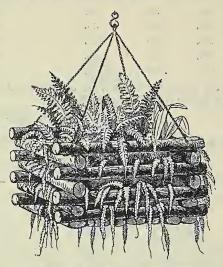
All the Compost should be light and open. The addition of a little old mushroom manure, or a reasonable quantity of cow manure, dried and rubbed fine, is of great benefit to all Hardy Ferns.

HANGING BASKETS.

These can be supplied in different shapes and of various materials, and when planted with one or more Ferns make beautiful ornaments, and are a great acquisition to the Fernery. We can supply them planted, according to the size, with one or more Ferns, &c., or unplanted if preferred.



WEST'S PATENT ORCHID OR FERN BASKET.



HANGING BASKET WITH FERNS.

The sizes and prices are as below, according to number and variety of Ferns, &c., used:—
*Square, unplanted....... 6 inches, 1s. 0d. ... 8 inches, 1s. 3d. ... 9 inches, 1s. 6d. ... 10 inches, 1s. 9d.,
Planted with 1 or more Ferns ,, 2s. 6d. ... ,, 3s. ... ,, 3s. 6d. ... ,, 4s. 6d.
Galvanised Wire (Round) 9 inches, 9d. ... 10 inches, 10d. ... 11 inches, 1s. 0d. ... 12 inches, 1s. 3d.
Planted ,, 1s. 6d. ,, 2s. 0d. ... ,, 2s. 6d. ... ,, 3s. 6d.
*Teak Wood Baskets for Orchids. Prices per dozen on application.

FERN COMPOST.

Compost, prepared expressly for Ferns and Selaginellas, consisting of leaf mould, loam, and sa nd in their proper proportions, ready for use, we supply at 1s. 6d. per bushel.

A better compost for the choicest varieties, containing silver sand, charcoal, leaf-mould, peat and loam, we supply at 2s. per bushel. Filmy Fern Compost, specially prepared, 2s. 6d. per bushel.

PEAT, the best quality, 3s. per bushel.

LEAF MOULD, of best quality, 2s. 6d. per bushel.

LOAM, good and suitable for Ferns, 1s. 6d., 2s. per bushel.

SILVER SAND, COARSE (which is better than the fine for Ferns), 3s. 6d. per bushel.

CHARCOAL, 2s. per bushel.

GREEN Moss, 2s. 6d. per bushel.

SPHAGNUM Moss, 3s. 6d. per bushel.

When supplying the above, we charge 6d. each for sacks, and we allow full price for them if returned to us in good condition, carriage paid, within one month.

If any other article is required, not mentioned in this list, please communicate with us, and, if possible, we shall have pleasure in supplying it.

FERN SEED.

Choice Mixed Stove and Greenhouse Varieties 1s., 2s. 6d., and 5s. per packet.

" " Hardy Exotic and British Varieties 1s., 2s. 6d., and 5s. " "

BLOCKS OF VIRGIN CORK PLANTED WITH FERNS FOR SUSPENDING.

This is a novelty introduced by us and universally admired. In place of the stiff wire baskets we use pieces of cork, which, planted with ferns in a particular way, not only look more natural and more ornamental, but so planted we find many ferns to grow more satisfactorily.

We can supply many varieties planted as above, suitable for stove, greenhouse, and dwelling-house cultivation, at 1s. 6d., 2s. 6d., 3s. 6d., and 5s. each.

As an indication of the approval the planted corks meet with, we have made up large numbers specially for some of our customers, as many as 100 going to one place.



BLOCK OF CORK FOR SUSPENDING, SHOWING FERNS PLANTED UPON IT.

TREE-FERN STEM WITH FERNS GROWING UPON IT.

VIRGIN CORK.

This very useful and ornamental bark is now so well known that it is almost unnecessary to say anything as to its value for covering bare walls in the Fernery or elsewhere, for making grottoes, imitation rockwork, hiding the edges of stages and shelves, and the many other purposes for which it may be utilised, in all of which it adds greatly to the appearance of the place where used.

PRICES.—Bales of 1 cwt., 20s.; ½-cwt., 11s.; ¼-cwt., 6s.; smaller quantities, 3d. per lb.; selected pieces, 4d. per lb.

PLEASE NOTICE.

When ordering Ferns, please add to the list the names of a few others that may be substituted should we be sold out of any of those more particularly required.

Instructions should be sent with each order, stating whether the plants are to be forwarded by Passenger or Goods Train, and whether they are to be packed in or out of pots. When the Ferns ordered are to be planted out, or if they can be re-potted on arrival, we strongly recommend our customers to have them sent out of pots (with any necessary exceptions). When sent out of pots they cost much less for carriage, they pack in considerably less compass, and travel a great deal safer than when in pots.

Our mode of packing out of pots is such that there is no danger whatever of injury to the plants during transit.

The prices quoted in this Catalogue do not include cost of carriage by Parcel Post or otherwise, so that whenever purchasers wish plants sent by Parcel Post, an additional amount should be included in the remittance to cover this cost.

We shall have pleasure in quoting prices of any Ferns or Collections, Carriage Free.

Extra plants are sent towards cost of carriage paid by purchasers, and we shall be pleased to know whether our customers prefer larger plants of those ordered, duplicates of them, or other varieties.

Correspondents must please be sure to sign their letters, and put in addresses. We frequently receive orders without signature or indication from whom they have come. This causes much unnecessary delay, trouble, and annoyance.

Purchasers with whom we have not previously had the pleasure of transacting business, will oblige by enclosing a remittance with and for the amount of the order sent.

When Goods are forwarded before payment, accounts become due on receipt of consignment, and we shall feel obliged by our customers forwarding a remittance by early post after receiving Goods.

PACKAGES.

We charge as low as possible for packages, and allow one-half of the charge if they are returned to us in good condition within a month from date of invoice.

All packages for which a charge is made must be returned within the time specified, or paid for.

It is particularly requested that customers will have their names and addresses put upon the address labels of returned packages, that we may know from whom they come. We should also be advised by post when they are despatched.

When packages are not charged for, customers need not trouble to return them.

NOTICES. 101

FOREIGN ORDERS.

Customers abroad must please send with their orders a remittance to cover cost of goods ordered, cost of Wardian Case if Ferns are to be sent so packed, and cost of freight which has to be prepaid when Cases of Ferns are carried on deck of Steamer.

To give an approximate idea we may say that a Wardian Case to hold 70 to 80 plants costs 25s., to hold 90 to 100 plants 30s. Freight and shipping charges from 21s. to 63s.

By means of a special mode of packing we are now able to send Ferns in closed cases with most satisfactory results, instead of sending them as formerly in Wardian Cases. There is thus a saving of the cost of the latter and really less risk of injury to the plants. Judging by results of various experiments, we have come to the conclusion that in most instances the closed cases are the better as well as less costly. When a remittance accompanies the order, which it should do from all new customers, we do not make any charge for the packing-case. Freight and shipping charges, however, have to be prepaid and must be taken into account when sending remittance.

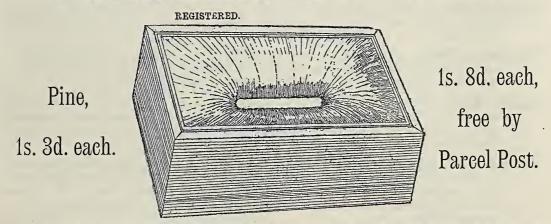
The best plan is to forward a remittance for a certain amount, accompanied by a list of Ferns required, giving first the names of those most particularly wanted, following with others that may be substituted for any of the first named which may be out of supply at the time. We will then see that the order is attended to in a manner which will be sure to give satisfaction to our customer.

A WONDERFUL BEETLE TRAP.

2,000 COCKROACHES CAUGHT IN ONE NIGHT!

IN ONE OF

BIRKENHEAD'S BEETLE TRAPS.



A gentleman had five Traps from us, and writing afterwards says, "The Traps were very successful. One trap caught last night no less than 2,000."

Writing again several days after, he sent a further remittance, saying, "As all the Traps I am now getting are to give away (as I think I am giving a really useful article), will you send one to each of the four following addresses."

A clergyman wrote, "I write a line to inform you that your Trap is a perfect wonder. One morning my servant counted them, and there were about 590 Black Beetles caught in one night, quantities of young ones. Three or four nights there were some 500 or more, last night about 300. Please send me another Trap."

A gentleman sending a second order writes, "In one night I caught 1,570 Beetles in one Trap in the stoke-hole of my greenhouse, and 1,074 in another in the kitchen. I have caught great numbers since, but have not taken the trouble to count them."

BOOKS ON FERNS, SELAGINELLAS, AND MOSSES.

- Ferns and Fern Culture. By J. Birkenhead, F.R.H.S. 128 pages, illustrated, bound in cloth; price 1s., free by post 1s. 3 J. (For particulars, see page viii.)
- The Book of Choice Ferns for the Garden, Conservatory, and Stove, describing the best and most striking Ferns and Selaginellas, and giving explicit directions for their cultivation, the formation of Rockeries, the arrangement of Ferneries, &c. By G. Schneider. Illustrated with numerous coloured and monochrome plates and engravings, photographs, and sketches made specially for this work. In three handsome volumes, large post 4to, extra gilt cloth, gilt edges. Price 21s. per volume; postage of three volumes, 2s. 6d.
- Choice British Ferns: Descriptions of the most beautiful variations from the common forms, and their culture. By C. T. Druery, F.L.S. Cloth 2s. 6d., post free 2s. 9d.
- European Ferns: Their form, habit, and culture. By James Britten, F.L.S. With 30 fac-simile coloured plates, painted from nature by D. Blair, F.L.S. 21s., post free 21s. 6d.
- Handbook to the Ferns of India, Ceylon, and the Malayan Peninsula. By Colonel R. H. Beddome. Illustrated 12s. 6d., post free 13s.
- Handbook of the Fern Allies. A Synopsis of the genera and species of the natural orders Equisetaceæ, Lycopodiaceæ, Selaginellaceæ, Rhizocarpeæ. By J. G. Baker, F.R.S., F.L.S. 5s., post free 5s. 5d.
- Lowe's Natural History of British and Exotic Ferns, with 479 finely-coloured plates and numerous woodcuts. 8 vols., published at £6 6s., offered at £4 4s., carriage paid £4 6s. 6d.
- Lowe's Natural History of New and Rare Ferns, containing species and varieties not included in "Ferns, British and Exotic." 72 coloured plates and numerous woodcuts. 1 vol., 21s., post free 21s. 6d.
- **Lowe's Our Native Ferns.** Illustrated with 79 coloured plates and 909 wood engravings. 2 vols., £2 2s., post free £2 3s.
- British Ferns: An Introduction to the study of the Ferns, Lycopods, and Equiesta indigenous to the British Isles. By M. Plues. 16 coloured plates and 55 wood engravings. 10s. 6d., post free 11s.
- The British Ferns; coloured figures and descriptions, with analysis of the fructification and venation of the Ferns of Great Britain and Ireland. By Sir W. J. Hooker, F.R.S. 64 coloured plates. Royal 8vo, £2 2s., post free £2 2s. 6d.
- Garden Ferns; coloured figures and descriptions, with analysis of the fructification and venation of a selection of Exotic Ferns adapted for cultivation in the garden, hothouse, and conservatory. By Sir W. J. Hooker, F.R.S. 64 coloured plates. £2 2s., post free £2 2s. 6d.
- Dictionary of Gardening. A practical Encyclopædia of Horticulture for amateurs and professionals. Illustrated with 2,440 engravings. Edited by G. Nicholson, Curator of the Royal Botanic Gardens, Kew; assisted by Prof. Trail, M.D.; Rev. P. W. Myles, B.A., F.L.S., and other specialists. In 4 vols., large post 4to. In cloth gilt, price £3; by post, £3 2s.
- Orchids: Their Culture and Management, with descriptions of all the kinds in general cultivation. Illustrated by coloured plates and engravings. By W. Watson, Assistant Curator, Royal Botanic Gardens, Kew; assisted by W. Bean, Foreman, Royal Gardens, Kew. Second edition, revised and with extra plates. In cloth gilt and gilt edges, price £1 1s. net; by post, £1 1s. 6d.
- Greenhouse Management for Amateurs. The best Greenhouses and Frames, and How to Build and Heat them. Illustrated descriptions of the most suitable plants, with general and special cultural directions, and all necessary information for the guidance of the amateur. Second edition, revised and enlarged. Magnificently illustrated. By W. J. May. In cloth gilt, price 5s.; by post, 5s. 4d.

Also many other Books on Horticultural and Botanical subjects.

HINTS ON THE CULTIVATION

OF

FERNS.

The greatly-increased popularity of Ferns, indicated by the many enquiries we are constantly receiving as to the conditions necessary for their well-being, leads us to enlarge somewhat upon our former "Hints on the Cultivation of Ferns," with the hope that by placing the results of our own experience and observation before our readers they may secure for themselves the delight and pleasure which the successful cultivation of these graceful plants is sure to afford. Our object will be to give clear and concise information, rather than to enter upon an elaborate and lengthy dissertation.

In the first place we would remark that the nearer we can attain to their natural conditions of growth, the better we shall succeed in their cultivation, and it is a great encouragement to try to do this when we know that they are not only the most beautiful class of plants grown, but also the most accommodating, as many of them will grow where little or nothing else would. The evergreen varieties are always nice, and prove a source of pleasure the year round, particularly in winter, when their soft green foliage is so cheering; and although the deciduous kinds are lost for a while during the winter months, when they reappear in spring the beauty of their new foliage is doubly appreciated. Ferns, on account of their many good qualities, are worthy of everyone's attention, and repay a hundredfold those who bestow upon them the necessary care, and whether they be cultivated in the stove or greenhouse, in the outdoor fernery, on shady window sills in boxes, in the drawing-room in cases, or in the house without cases—in every suitable situation they will add a charm to the place otherwise unattainable.

We purpose giving a few hints as to the temperature, watering, reporting, and soil, &c., required by those grown indoors in pots, in rockeries, and in hanging baskets; the treatment, &c., of Filmy Ferns; also of those in an outdoor fernery, those in Fern cases, and those growing in rooms without covering; and in addition, a few suggestions as to the eradication of the insects by which they are liable to be attacked.

It is necessary to remember that Ferns are shade and moisture loving plants. Yet the amount of shade, and also of atmospheric moisture, required by the various species is so varied that we feel ourselves under the necessity of roughly dividing them into classes, and noting the particular treatment most suitable for each class. We say roughly, because we can only speak in general terms in any remarks which claim to be brief. Nevertheless we hope even with brevity to give hints of much value to those who are inexperienced in the management of Ferns.

The fact that Ferns are generally found growing under the shelter of larger vegetation, or of rocks, or sloping banks, will at once suggest the necessity for cultivating them under somewhat similar conditions, i.e., protected from the direct rays of the midday sun, and from the force of strong winds; for although Ferns are sometimes found exposed to both sun and wind, yet such plants lack that delicacy of colour and texture which make those in sheltered situations so lovely and refreshing to look upon. Those which require the deepest shade are what are known as Filmy Ferns, amongst which are the various species of Todea, Hymenophyllum, and Trichomanes. Most of these do well in a house or frame having a north aspect, and with all the light such an aspect will afford in the dark winter months, during which the glass should be kept clean and unshaded, say from the middle of November to the middle of February. About the latter time the increasing brightness of the sun will make slight shade necessary for houses exposed to direct sunlight; and this must be increased in density as the summer advances, and lessened again as the days shorten in the autumn.

Filmy Ferns flourish in an atmosphere heavily charged with moisture at all times, and rather deep shade is necessary in summer in order to retain sufficient moisture in the atmosphere. This should be done by watering or syringing the walls and paths, and such surfaces as can be conveniently watered without throwing it on the foliage. We would say, do not syringe the fronds if it is possible to keep them damp enough without it. The condensation of moisture on the fronds is what is desirable, rather than syringing volumes of water upon them, though in very hot and bright weather slight syringing may be necessary in some situations, for the fronds must never be allowed to get dry enough to cause them to shrivel. Artificial heat should not be given to Filmy Ferns, except in the case of a few of the very delicate subjects from hot climates, and to keep them from freezing during winter. The temperature of our country is high enough for many of those in general cultivation, such as Todea superba, T. pellucida, Trichomanes radicans (the Killarney Fern), and some of the Hymenophyllums, and they may be grown beautifully in a cold garden frame, where the requisite shade and moisture are provided for them. Indeed we find artificial heat more productive of injury to these Ferns than the frost of the late severe winters. If they must be in a house artificially heated, they will be benefited by an additional glass covering, to prevent the drying influence of the heat from the pipes spoiling their appearance by browning and shrivelling their foliage.

Among the Ferns which come next on the list in their love of shade and moisture are Aspleniums and Selaginellas, most of which delight in situations very similar to those suitable for *Filmies*, but with rather less shade and atmospheric moisture.

The different species of the above, however, differ greatly in their requirements in respect to heat, some being perfectly hardy and others requiring stove heat, while between the two are plants suitable for all gradations of temperature, their requirements in this particular being shown by their arrangement in the catalogue under the various headings of Stove, Greenhouse, and Hardy Ferns.

With still less shade, we find the genera Athyrium, Cyrtomium, Diplazium, Meniscium, Onoclea, Scolopendrium, &c., to grow well; and flourishing in still more light and air there is a host of species and varieties, which constitute the great majority of Ferns found in the general collection, such as many species of Adiantum, Blechnum, Davallia, Lastrea, Lomaria, Nephrodium, Nephrolepis, Polypodium, Polystichum, Pteris, and Woodwardia, and the many minor families, nearly all of which do well with abundance of light and a moderate amount of air, requiring protection simply from the scorching rays of the sun, and, in the case of those growing out of doors, from strong wind also.

We have now to speak of a class of Ferns which require treatment almost the opposite of that suitable for Filmy Ferns in the matter of light and atmospheric moisture. We refer to the CHEILANTHES, NOTHOCLŒNAS, PELLÆAS, and WOODSIAS. These exquisite Ferns require abundance of light and air, and should be near the glass, in a position in which plenty of air can circulate about their foliage. When potted, the smaller growing varieties are benefited by being pressed and held firmly between flat pieces of stone, of which there should also be small fragments mixed with the soil, for the most perfect drainage is necessary for the health of all these plants. The Aspleniums septentrionale, Germanium, ruta-muraria, and Ceterach officinarum, will do well with the same treatment. The Gymnogrammas, among which are the Gold and Silver Ferns, require strong light and a good circulation of air, the latter created by the hot water pipes in their vicinity. Great care should be taken not to allow any water to get on the fronds of the Gymnogrammas.

In recommending a good circulation of air, we do not mean cold, cutting draughts and wind, but a buoyant atmosphere in gentle motion, caused by suitable ventilation of the structure in which the plants are growing.

TEMPERATURE.

Ferns and Selaginellas requiring artificial heat are divided into two sections, viz., those from tropical countries requiring a stove temperature during winter of from 60° in the night to 70° or 75° in the day, rising as the days lengthen to 70° in the night, and 80° in the day during summer, again declining to winter temperature by degrees as the colder weather comes on, and the days shorten; and others requiring during winter only a greenhouse temperature of from 40° to 50° in the night, to 50° or 60° in the day, gradually rising as the days lengthen, and the light becomes greater, to 60° or 65° in the night, and 70° or 75° in the day during summer, again declining as the days shorten, &c. No harm will be done if the temperature rises even 10° higher than the above if caused by the sun, but it will not be wise to raise it so high by artificial heat.

Many Ferns growing in the tropics are found at high elevations on the mountain sides where the temperature is much lower than in the plains below, consequently these do better in a greenhouse than in a stove temperature. We have endeavoured to divide them in this catalogue into the two divisions most suitable for each individual plant, but it is well to bear in mind that some species grow both in the tropics and in the more temperate regions, hence it will be found that some classed in the stove section will grow in a greenhouse, and *vice versâ*.

In keeping up stove temperature, artificial heat is, of course, required, as it is also for greenhouse temperature, though not to so great a degree; and as Ferns in their native habitats—with some few exceptions—grow in moist situations, revelling in a humid atmosphere, it may be put down as a rule, always to be followed, that the atmosphere in the stove and greenhouse must be kept moist. This may be done by damping the walks and walls with a watering-can or syringe, not, however, wetting the foliage of the Ferns any more than can possibly be helped. We do not advocate syringing Ferns as some people do, and we are sure that far more harm than good is done by this practice. In exceptional cases it may be beneficial, but it is only in such, and not as a rule, therefore it is advisable for all but the most experienced to avoid it altogether. If plenty of moisture is kept in the atmosphere, by the means previously specified, it will answer the purpose better than syringing the Ferns, as it will not be attended by the dangers accompanying the latter course, especially where Gymnogrammas are growing. It is almost certain death to these Ferns to get their foliage wet, as it causes their fronds to damp off, and the plants become weak, and eventually die. The temperature being kept up with the necessary moisture, the next thing to be considered is the

WATERING.

Those in pots should be examined every day, particularly those in small ones, as they get dry quicker, and suffer sooner than those in larger pots. Ferns and Selaginellas should never be allowed to become dry at the roots. If they do so, it is sure to injure, and in some cases kill them outright, but while care must be exercised not to let them become dry, care must also be taken not to make them too wet by watering when they do not require it, or the soil will become sour and the plant sickly. In watering plants, a great mistake is sometimes made by a little being given every day, thus keeping the

soil near the surface damp, while that below becomes quite dry, and the roots being principally at the bottom, the fronds shrivel and die one after the other, causing much anxiety and disappointment. When a plant is getting dry, a good supply of water should be given, filling the pot with sufficient to thoroughly wet all the soil, and no more should be given until it really requires it. If a plant has become very dry, as is sometimes the case, through being overlooked, the soil will have contracted, leaving a crevice between it and the pot, so that when water is poured into the pot it runs out again almost as quickly; in this case it does the plant very little good, as, instead of penetrating the ball, it goes between the pot and the soil, only wetting the soil nearest the pot. To saturate the whole of the ball, it should be placed in a vessel containing tepid water as deep as the pot, and allowed to remain fifteen or twenty minutes, until the water has penetrated thoroughly. The water given to the Ferns should be the same temperature as the atmosphere of the house in which they are growing, the chill being taken off by adding warm water, unless it has been standing in the house a sufficient length of time for it to have become as warm as the atmosphere. In summer, of course, they will require watering oftener than in winter, but they must always have it when getting dry, at whatever time of the year it may be. Thus, plants should be examined every day, in the morning in winter, in the afternoon or evening in summer. They must be watered freely when they are getting dry, and not again until they really require it.

POTTING.

Ferns require re-potting oftener when in small pots than in large ones. The best time of the year to commence is about February, when they will be starting into growth, and the sooner they are done after that the better it will be for the plants.

The pots must be clean. If they have been used before, they must be washed and scrubbed clean inside and out, this being necessary for the health and appearance of the plants. The pots when used must also be dry; if either dirty or wet pots are used, the evil consequences will be evident when next the plant is to be re-potted, for it will be impossible to remove it from the pot without leaving behind a quantity of soil adhering to the sides, which will almost certainly break off a number of the roots, and thus injure the plant. New pots, before being used, should always be dipped in water until they cease to absorb it without remaining wet on the surface. A pot new from the kiln will absorb a large quantity of water, and if this is not supplied before being used, it will rob the soil of its moisture to such an extent that often it will be difficult to get water to penetrate the ball of soil, and the plant will languish from drought, while perhaps the surface of the soil appears wet enough.

COMPOST.

The Compost for the general collection should consist of good fibrous loam, leaf mould, good peat, and sharp coarse sand, in equal proportions, well mixed together, but kept as coarse as possible, each ingredient except the sand being better in pieces from the size of a pea to that of a walnut, than in finer particles.

For ADIANTUMS the peat should be left out of the compost, and a little more leaf mould and loam may be added instead.

The great object should be to have the compost open, that the water may pass readily through it, and of course be followed by a change of air in the soil, which is exceedingly beneficial to the roots of the plants. Soil holding water in a stagnant condition will cause the death of almost any Ferr remaining in it for a length of time. For FILMY FERNS the compost ought to be of a very open character, and may be composed of equal parts fibrous loam, peat, broken stone, leaf mould and charcoal. The material should be broken in pieces from the size of a hazel nut to that of a walnut or larger, all the finer particles being sifted out and used for other purposes. The object of this open compost is to secure the previously mentioned requisite of a free passage of water through the whole body of soil, and the free admission of air to the roots of the plants. Where such compost is used, it will be found that the best roots are those which lie in the crevices between the pieces of compost. It must also be remembered that with such a compost, frequent and abundant waterings must be given, and the advantage of this treatment will soon be seen in the vigour and beauty of the plants.

The small Filmy Ferns require little more than finely broken stone, with a little leaf mould and loam, and should be planted in shallow pans; while some of the very delicate species grow well on the stems, or pieces of stems, of Tree-ferns, kept constantly moist by water carefully given. The soil and the pots being ready, the latter should be crocked, that is drained by putting one piece of a broken pot at the bottom, hollow side down, large enough to cover the hole, and a number of others over and around it, to the depth of an inch or so, according to the size of the pot, and on the top either a layer of moss or leaves; the object of the former being to allow the surplus water given to the plant to drain away, and the moss to prevent the soil washing among the crocks and stopping up the drainage, which would soon cause the soil washing among the re-potted may be turned out of the pot in which it has been growing in most cases by placing the left hand over the ball of the plant, turning it upside down, and giving the edge of the pot a sharp knock on the bench, when it may be taken off; then remove as much of the soil and drainage as can be done easily without injuring or breaking off the roots, put a little soil in the fresh pot on the top of the moss, and then place the plant upon it, press down and fill all round the ball with fresh soil, making it firm but not hard, with the potting stick; the top of the ball when in the new pot should be low enough to allow of a good supply of water being given when

watering, for example in a 4½ in. pot it should be about half an inch below the rim, the depth being increased in proportion to the larger size of pots used. When the Fern is firmly planted in the new pot, it should be gently watered with sufficient to saturate the ball and new soil, and not again until it requires it, as previously mentioned. Large plants when re-potted will often require a considerable quantity of the old soil removing. This must be done carefully, and as few roots as possible broken off. Care also must be taken not to put any plants into pots too large. It is better to pot them frequently, using a rather larger pot each time, than to put a small plant into a large pot, for in many instances such a course will cause its death. Some will require re-potting several times in the season, but once a year will be often enough for the larger plants. When a pot is well filled with roots the plant, needs a larger one and should be transferred unless it is getting is well filled with roots, the plant needs a larger one, and should be transferred, unless it is getting late in the year, and not likely that it will grow much more that season, when it may safely be left until the beginning of the next year, seeing, however, that it does not run short of water during the winter. Healthy plants having filled their pots with roots, usually may be moved thus—from a 3in. to a 4½ in. pot, a 4½ in to a 6 in., a 6 in. to an 8 in., an 8 in. to an 11 in. or 12 in., a 10 in. to a 14 in. pot, and so on, the measurements being across the pot, inside at the top.

In all instances of Ferns growing from crowns, those crowns should be kept well out of the soil, and not buried in it, otherwise there is danger of their rotting. Some have underground rhizomes, which should be buried, while others have rhizomes creeping on the surface of the soil, which should never be buried, but if loose these may be fastened down with small pegs of wood.

HANGING BASKETS.

These are very ornamental, and many Ferns to do well and show their beauty should be suspended, as otherwise their long, drooping, and graceful foliage is not seen to advantage. suspended, as otherwise their long, drooping, and graceful foliage is not seen to advantage. The baskets, whether of wire, cane, or wood, must have a lining of moss inside, to hold the soil in its place. When the Fern is planted, the soil should not be quite so high as the side of the basket, or the water will run off instead of through. These will require daily examination, and should be well watered as often as they require it, for they dry up rapidly. Some of the Adiantums, such as assimile and amabile, planted in these baskets, send their creeping rhizomes down and through the crevices. forming crowns, and producing fronds in such abundance as to completely hide the basket with a mass of beautiful green foliage. This shows well against the light, and produces a charming effect. Davallias, Goniophlebiums, Polypodiums, and numerous others, do remarkably well so grown under these conditions.

HANGING BLOCKS OF CORK BARK.

This is a novelty introduced by ourselves, and giving much more pleasing results than baskets. A piece of cork bark is taken, on the inner side of which a layer of moss, larger than the cork itself, is arranged roots upwards; on this the Fern is placed, and its roots surrounded with compost, in quantity according to size of plant and cork. Over the compost and roots of the Fern the overhanging moss is drawn so as to cover all the soil; then the moss and Fern together are fastened on the cork by thin copper wire, worked across in different directions and twisted round copper tacks driven into the edges of the cork. The whole is then suspended by one wire bent into a hook if to hang against a wall, and by three or four wires and a hook if to hang like a basket from the roof of the house.

These will require watering frequently, and occasionally they should be soaked to ensure thorough saturation. With this treatment the moss will grow as well as the Fern, forming altogether a most lovely object. Davallias especially delight to have their creeping rhizomes among the damp moss, and their roots through the moss into the compost. Suspended near the glass roof of the house, under these conditions, they grow luxuriantly, and are very beautiful.

FERNS IN ROCKWORK (IN STOVES OR GREENHOUSES).

Ferns planted in rockwork require much less attention than those in pots. They have not to be watered so frequently, neither have they to be repotted, but if planted in good soil to begin with, they will grow for years, and attain a size they rarely do when in pots. They must not be allowed to become so crowded as to interfere with the development of their fronds, or shade too much the smaller growing species planted underneath. We would here give a word of warning against a plan sometimes adopted of watering Ferns in a rockery by means of a hose attached to a water pipe. This is a dangerous practice, causing in many instances a sad state of things. The water so distributed is too cold, many plants get it on their fronds till they are dripping, when they ought not to have any at all; such a volume of cold water as is often administered makes the place too wet, and produces sickness where all ought to be health. Although more trouble, and taking up more time, it will repay anyone to water their plants carefully and judiciously by means of a can with a rose, using water from which the chill has been taken, and giving more or less as it may be needed.

OUTDOOR FERNERY.

No garden should be without its outdoor Fernery, either large or small; a shady situation is required, and Ferns will grow in many places where other plants would die, making a most *interesting* spot of what would otherwise be a barren place. With blocks of limestone, sandstone, or tufa, the rougher the better, and a mixture of peat, loam, leaf mould, and sand in equal proportions, a place may be prepared either on a large or small scale for the occupation of our native Ferns, many of which are as interesting and beautiful as those coming from warmer countries. In addition to native

Ferns, there are many North American and Japanese species now available for intermixture, giving a greater variety of foliage for the hardy fernery. Once made, very little attention is afterwards required; they will be benefited by being watered occasionally, especially in the summer months. A protection of old fronds or other material placed over the crowns in the autumn will enable the more tender varieties to bear the severity of our winters, but the protection must be removed in the spring, when the young fronds begin to grow.

FERN STANDS AND WARDIAN CASES.

There are many lovers of Ferns who, living in towns, have no convenience for cultivating them in a rockery, and who yet desire to have them. To such we would recommend a fernery on a small scale, from a rustic stand 8 or 9 inches in diameter, with a propagating glass to cover the plants, to the larger and more commodious Wardian or Fern case of from 2 to 3 feet in length.

There are many varieties suitable for these cases, which with a little care and attention will yield great pleasure. Having procured a stand and glass, or case, soil properly prepared as recommended previously, and Ferns, place drainage at the bottom as in pot culture, cover with moss or leaves, put in the soil, plant the Ferns, keeping the tallest for the centre, intersperse a little Selaginella which will spread and cover the surface, then water gently till the soil is thoroughly damp, and put on the glass or close the case whichever it may be; place them as near the window as possible, to get plenty of light, but protect them from the sun, if they stand at a window through which it shines. They will not require watering again for some time, but when the surface gets dry, they should be watered gently as before to the extent required. After a case has been planted a year or two, it should have fresh soil put in, which will necessitate clearing it out and replanting the Ferns as at first, after which they will again grow with renewed vigour. The best time for replanting is in spring. Should the glass become dim through the condensation of moisture upon it, a little ventilation may be given.

FILMY Ferns are especially suitable for the close atmosphere of the Wardian case and fern stand, and are exceedingly lovely when so cultivated. These may be watered overhead, but others should have their foliage kept dry as possible.

FERNS FOR ROOMS.

Ferns are often kept in dwelling-houses without glasses or cases, but owing to the dryness of the atmosphere they cannot possibly grow so well as when in a damper place. They, however, succeed for a time, and are useful for table decoration, also for placing before the window, where they grow better, live longer, and look prettier than any flowering plant that can be obtained. They must be regularly supplied with water, the fronds now and again being gently sponged with clear tepid water to remove the dust which accumulates on them. The same may be said of these as of those in the greenhouse, only water when requisite, then give plenty, using water as warm as the room where the plants are growing. If these matters are attended to, they will do much towards enlivening and beautifying the room. Some species are very much more suitable than others for rooms. We are always pleased to advise in choice of sorts, when the kind of situation for which they are required is made known to us.

INSECTS.

Wherever growing, Ferns are subject to the attacks of Insects. These are "scale," which look like small stationary protuberances, but which nevertheless multiply and spread rapidly, doing much injury. These must be picked or sponged off, clearing the plant of every one, using warm water, in which is dissolved soft so ap in the proportion of 2oz. to a gallon. This is a cheap, simple, and efficacious insecticide. Next come "Thrips," small, thin, black insects, about \(\frac{1}{16} \) of an inch long (white when young). These are very destructive; they soon disfigure the plants upon which they live, attacking those that are in poor health, quickly making them worse; plants growing in too warm a temperature are often attacked, as they are not then so strong and healthy as when cooler. The best remedy is to examine the plants so infested, pick the insects off one by one, and then sponge or syringe the plants with clear water. An easier method, where many plants are infested, is to fumigate the house three or four times on alternate nights with tobacco paper, not giving too strong a dose at once, as it is liable to injure the young fronds; this will also destroy another pest, "green fly," which is almost sure to make its appearance sooner or later, but fortunately is easily disposed of by any of the above methods.

Besides the above there are also several

OTHER PESTS

which prove very troublesome to the cultivator of Ferns, the well-known "cockroach" or "black beetle" being a great enemy, with which we may class "crickets" and "woodlice." As these usually come out of their hiding places at night, at which time they feed on the young fronds, diligent search must be made for them by candle or lamp light, at the same time keeping a look-out for slugs and snails, which are equally if not more destructive than the preceding. It is almost useless attempting to find these in the daytime, but an hour or two after dark they are generally easy to find.

In addition to the above mode of eradication, poison may be laid for the beetles, or beetlepowder may be used as recommended by the different makers. For woodlice, traps may be laid, consisting of small pots laid on their side with a little moss inside, into which they will creep to hide. For slugs and snails pieces of apple, turnip, carrot, or potato hollowed out and laid here and there will often prove of great use in their capture; these various traps should be examined each day. Once these enemies are caught different modes of killing them will naturally suggest themselves to the captor.

SHADING.

Movable blinds are undoubtedly the best medium for protection from the sun. They may be made of coarse canvas or other material which is open enough to admit considerable light, the object being not to keep out the light but to break up the rays of the sun so as to prevent scorching. We use a shading of flour and water, in addition to the canvas blind, in the bright weather of summer. We find that, mixed with cold water and put on like limewash, it sticks well to the glass. Sometimes the first application partially washes off with the rain, but the second remains all the season. On the first requirement for shade we put on a thin coating of this flour and water, and then add another thicker coat as the sun gains more power. This causes a subdued light, very congenial to the Ferns; but this shading is supplemented by canvas blind when the sun shines strongly, which however, is drawn up again as soon as it can be dispensed with.

When blinds are not available, the *flour and water*, whiting and buttermilk, or one of the numerous white or cream-coloured shading materials now sold for the purpose, must be used thicker, or laid on more frequently till the requisite density is obtained, that being decided by the aspect of the house and pitch of the roof. A roof facing south requires much more shade than one facing east or west, and one facing north still less. The great drawback to heavy permanent shading lies in its not admitting enough light in dull, sunless weather. Our remarks on shading apply, of course, to situations open to the full sun; but where shade, or partial shade, is afforded by trees or buildings, that must be taken into account and allowed for.

The blinds we use are fastened along the ridge of the house, and their bottom edges nailed on rollers of three inches diameter, from 14 to 28 feet in length. The shorter ones are easier to work than those of greater length. These rollers are drawn up by means of ropes passing over pulleys against the ridge of the house. These ropes are fastened to the ridge under the blind and under pulleys fixed at one-fourth the length of the roller from each end. The ropes thus fastened come down under the blind and roller, and then over the roller and blind back to the pulleys on the ridge through which they pass, and the two ropes then meet over two centre pulleys, and either pass down into the house from whence they are worked, or else are brought back over the blind to the bottom of the roof. When the ropes are pulled the rollers are drawn upward and wind the blinds in their course to the top; the ropes are then made fast. When they are again loosened the weight of the rollers causes them to roll down the roof and at the same time to unroll the blinds. The pulleys are fixed at the proper angle to secure the smooth working of the ropes. Four pulleys are required for each roller, two in the centre, and one half-way between the centre and each end of the blind.

In concluding these remarks, we would say that we shall have pleasure in giving further information as it may be required, for difficulties may arise not dealt with here, upon which it will be easy to throw light when we know the particular circumstances which give rise to them.



FERNS AND FERNERIES

From "GARDEN WORK," October 15th, 1887.

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The following remarks on Ferns and Ferneries are extracted from a lecture delivered before the Manchester Horticultural Improvement Society, by Mr. W. Birkenhead, the well-known Fern nurseryman, of Sale, Manchester:—

"AN ART THAT DOTH MEND NATURE."

How many natural dells and ravines there are which might be made into places of delightful resort by the outlay of a little labour, and the addition of specimens and clumps of our native Ferns suitably placed; where winding walks, bordered by upraised irregular terraces and sunken depressions, with rocky projections and shady recesses, judiciously planted with our favourites, would call forth expressions of admiration from those who delight in such haunts! And if, over all this, a glass roof could be placed, and the ends blocked up with masses of rock covered with creepers, or with clumps of shrubs or trees, what a splendid array of grace and beauty could be secured by adding the hardy exotics to the abundant beautiful forms of our British Ferns, such as the tasselled Athyriums and the crested Scolopendriums, producing a veritable paradise, or garden of delights! And what higher form of gardening could be conceived than the imitation of Nature in such an aspect?

ARTIFICIAL FERNERIES .- "MORE LIGHT."

We need not wonder at the increasing taste for rock-built and glass-covered ferneries in gardens where natural ravines are not found ready to hand, nor need we be surprised at the large expense many gentlemen are willing to incur with the object of securing such a fairy retreat for the occupants of their homes and the delectation of their visitors.

I must here give expression to my regret that often these very places, intended for refreshment of mind, fail to afford the pleasure they might be made to give, through the injudicious arrangement of the rockwork in the interior. I refer to the too lavish use of arches and masses of overhanging rock, which prevent the light reaching the lower parts of the fernery in sufficient measure for the well-being of the plants there situated, the inevitable result of which is that they dwindle away and die, leaving bare those parts which ought to be most amply furnished with verdure because of being below the eye of the spectator. Now, my impression is that the foliage in the lower parts ought to be quite as luxuriant as that above, and that luxuriance ought to reach down to the very margins of the paths. This happy effect can only be insured by arranging for an abundance of light to find its way to the lowest parts of the fernery. My ideal, therefore, would be an arrangement of irregular terraces, rising in varied steps upward and outward from winding paths to the base of the glass roof, the contour of the whole series of terraces representing an angle of 40 degs. to 50 degs., so that the light might flow strongly to the very lowest parts of the fernery. Sufficient shade would still be found below the larger Ferns for those requiring a greater depth of gloom; and I would here observe that, although Ferns generally cannot endure scorching sunshine, yet a large amount of light is necessary for their perfect development, and, in the winter months, all we can get of this agent is less than enough for the well-being of evergreen species.

Seeing then that a heated fernery is for pleasure in winter as well as in summer, care should be

Seeing, then, that a heated fernery is for pleasure in winter as well as in summer, care should be taken to provide for plenty of light at all seasons, simply shading in summer to prevent scorching, and taking care in winter to keep the glass thoroughly cleansed from soot and dirt, that no obstruction to light be caused by their presence, for light is one of the greatest essentials to the growth of vegetation.

POCKETS FOR THE PLANTS.—SOIL.

With regard to the terraces or pockets, they should be so built as to admit of a large body of compost for the use of the plants, and be well drained to allow all surplus water to escape easily. The compost itself should be rough rather than otherwise, containing a good proportion of broken pieces of peat and loam as large as a walnut or an egg, with rough leaf-mould and sand—small nodules of charcoal and stone being valuable additions. If peat, loam, and leaf-mould are used in about equal proportions, with a liberal addition of sand, charcoal, and stone, a good compost is obtained suitable for general Fern culture. For Ferns in small pots, of course smaller pieces must needs be used; but even then the compost ought not to be too fine in texture, but sufficiently coarse to allow water to pass readily through it.

PLANTING.

Now for a word about planting the Ferns. An excellent effect is produced by planting a number of one species or variety in a mass, and next to it a mass of a different kind, distinct in form or colour, so as to create a contrast, by which the beauty of each variety is greatly enhanced, and made conspicuous. Large growing Ferns of course should be placed singly to stand up above the others, and to show off their individual graces. Care should also be taken to secure a proper balance of form and colour in the disposal of specimens or clumps.

WATER.-SUSPENDED BLOCKS.

In a fernery such as that described trickling and running water, or even water standing in irregularly-shaped pools, is a great improvement to the general appearance, as is also the addition of rough blocks of virgin cork, with Ferns secured to them by moss bound on with copper wire and suspended from the roof. The Davallias especially luxuriate with this treatment. These cork blocks are also valuable additions to ferneries where the Ferns are grown in pots on stages, and they look well hanging against the walls where there is sufficient bare space to admit of the addition.

AN OUTDOOR FERNERY.

Passing now to the construction of an outdoor fernery, I would suggest the importance of having a large body of compost connected throughout, if possible, and also having a broad base on the ground to insure uniformity of moisture and to prevent the tendency to dry up, which small bodies of soil are necessarily liable to when exposed to wind or sun. And, even where the sun never reaches, the foliage of luxuriant plants is continually, during daylight, throwing off moisture drawn by the roots from the soil, so that it is important to secure for them a good and steady supply in the soil in which they grow, otherwise much labour is involved in artificial watering, or the plants are lost for want of it.

DRAINAGE.

We must not, however, fall into the error of constructing our rockery without ample drainage, but should provide for the passing away of all surplus water. If the rockery is to be large, a hole should be dug in the ground some depth, and filled with broken bricks, crocks, clinkers, or stone, which should rise above the surface of the ground where the centre or ridge of the rockery will come. This heap of open material should then be covered with sods or some rough litter, to prevent the soil working into it.

CONSTRUCTING THE ROCKWORK.

The process of building may now be commenced, the same order being observed as that recommended for an indoor rockery, taking care to make it as irregular as possible, here projecting, there receding, and working upwards by the formation of terraced pockets. The stone or other material should be so placed as to prevent the soil washing down; and the incline of the soil in the terraces should rather be inwards than outwards, so that the rain may be caused to permeate the whole body of compost, and prevent its getting dry in the interior; and to further effect this object, there should be a large proportion of bog or peat, or other moisture-holding substance in the composition.

MOUNDS AND DELLS.

If there is abundance of room and material, I would say, dig far down in the ground, and throw up the soil to form miniature mountains, with natural-looking valleys between them, and use the stone as before directed, making the paths in and out and up and down—indeed the opposite of straight or level—and let the irregular stonework begin from the paths, and work upwards in terrace pockets as before said; and when judiciously planted, I apprehend the effect would be most enjoyable. We suppose, of course, that shade is provided by trees either naturally or artificially placed; but in all artificial work I would say, take care that the appearance is as though no hand had been near it. The truest art in this kind of work is found in that which looks least artificial. One further remark may be made as to the fixing of the rock. It should, in all cases, be made thoroughly firm. Commence at the front with stone slightly embedded in the earth, and rammed firmly at the back, the stones being set at such angles, where possible, as to cause them to lock into or against each other, according to shape. Each tier of stone should have its foundation rammed solid, and then be rammed well at the back as the soil is filled in, so that the whole may be a solid structure, not to be moved either by wind or rain, or even by persons climbing over it.

FILLING UP CREVICES.

The ramming of the soil must not extend further than necessary, but room must be left in the pocket for plenty of loose soil to receive the roots of the Ferns, and for them to grow in. To prevent the soil washing through the interstices of the stone, lumps of bog or peat may be used, which serve well to hold up the compost in its place, and also as a good material for the plants to root in, and thus to make a firm mass. This packing of the joints of the stone with bog reminds me of the

desirability of inserting suitable Ferns and Ivies or other trailing plants in the crevices as the work goes on, for they greatly improve the appearance of the work when they take kindly to their new home, and grow as if they had been born there. And it is worthy of remark how well they do, and how snug and protected they look when their roots are hidden away behind large stones, and only their beautiful fronds and leaves are visible in front.

SEEKING EFFECT.

Another important thing to be observed in the construction of a fernery, as, indeed, I think, in most kinds of gardening where effect is desired, is to take care to avoid repetition. If possible, have all one kind of Fern or other plant in one mass, or in masses, in one locality, and in another locality something quite different in appearance, so that at every turn something fresh may present itself to the eye of the beholder. If possible block out the range of vision at intervals by trees or shrubs or rock, so that the whole cannot possibly be seen at once, but rather that curiosity may be occasioned by turning a corner here and another there with some fresh and attractive feature peculiar to each fresh view. This is the kind of thing to give pleasure to the visitor, and to make the fernery the most charming part of the garden.

ARRANGEMENT OF THE FERNS.

I do not think I need add much to that already stated, except to advise the planting of the largest growers at or near the top of the rockery; for if large-growing plants are placed at the bottom they hide much of the rockwork, and seem to dwarf its appearance. Still it is necessary to secure some balance even in this matter, by having a few plants of medium size near the bottom, and when possible on the projecting parts, so as to make the nooks and recesses appear still deeper. To put a large Fern in a recess would defeat the object for which the recess was made, but to bring it well in advance of the recess it has the opposite and therefore desirable effect of apparently increasing the irregularity and extent of the work. Then the terraced pockets, about 3 or $3\frac{1}{2}$ feet above the paths, are just the places for masses of small interesting species and varieties, which, coming near the eye, are seen to great advantage, larger kinds showing themselves at greater distances.

A FEW REMARKS ON VARIETIES.-TODEA SUPERBA.

As to the species and varieties of Ferns suitable for outdoor and indoor rockwork, pot culture, and window decoration, their name is legion, and I will not attempt an enumeration of them, but will simply give a few general hints which may be of use. I feel constrained to speak of the ease with which many Ferns, even the lovely Todea superba, may be cultivated when a few simple conditions are observed. Remarking upon its extreme hardihood, I would observe that the latter-named species may be seen by the score in splendid health and vigour in a range of pits, with no other protection from the weather than the glass covering, and in severe frost the addition of mats, which, however, do not prevent the frost coating them over with a hoary garment, and sometimes even freezing the soil so hard as to burst pieces out of the pots; so that no person need fear an attempt to cultivate this charming Fern. Simply sink it in a hole in the ground, cover it with glass, and subdue the light in summer by rather dense shading, and its prosperity is insured if it is planted in a lumpy compost of loam, leaf-mould, and peat, with plenty of stone and good drainage, well supplied with water at the roots, and frequently sprinkled overhead in dry weather.

FILMY FERNS FOR ROOMS.

Many other filmy Ferns are equally easy to cultivate, and do remarkably well in Wardian cases, or under bell-glasses, in a bedroom or sitting-room window on which the sun does not shine. I may add that filmy Ferns require little or no ventilation; and if air is admitted, it should only be when the atmosphere is saturated with moisture, either during rain, or in the night when the dew is heavy.

FERNS REQUIRING LIGHT AND AIR.

Very different is the treatment required by such Ferns as the Cheilanthes, Pelleas, Nothoclænas and Woodsias, most of which require abundance of light and air, and which should be grown very near the glass in an airy situation, protected from frost, and planted in an open compost, containing bits of stone or other hard material, to secure an easy passage for the water, which latter should be freely applied to the roots in summer, but never to the fronds. Gymnogrammas require very similar attention, with the addition of considerable artificial heat for some of the tropical kinds, while others do well with greenhouse temperature, such as Gymnogrammas triangularis, trifoliata, hispida, ochracea, &c.

ADIANTUM FARLEYENSE.

In conclusion, a word of warning against the use of peat in the compost for Adiantum farleyense. I am persuaded that many fail to grow this plant successfully through the use of peat in the soil. I find that when well drained, and planted in good strong loam, made open and porous by the addition of leaf-mould and sand, and placed well up to the light in a warm house, it will grow luxuriantly, and as easily as a great many other Ferns.

THE FERNS AND FERNERIES

MESSRS. W. & J. BIRKENHEAD'S NURSERIES,

SALE.

From "THE GARDENER'S MAGAZINE."

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It is now well known to the majority of those who take an interest in ferns that the collection in the nurseries of Messrs. W. and J. Birkenhead, at Sale, is one of the largest and most complete in commercial establishments. But to fully appreciate the extent and comprehensiveness of the collection is wellnigh impossible by those who have not had the pleasure of visiting the nurseries. Some assistance may perhaps be afforded by stating that the collection comprises upwards of fourteen hundred species and varieties, and that many of the more popular kinds are represented by thousands of examples, ranging from baby plants in thumbs to full-grown specimens requiring pots ranging from twelve to twenty inches in diameter for the accommodation of their roots. How many structures the firm devote to the ferns we cannot say; but to make the tour of the houses involves a rather long journey, and there are in addition great lengths of pits occupied with kinds requiring very little artificial heat. The collection has a distinguishing characteristic not less important than its magnitude, and that is the healthy condition of the plants on all sides. Not only are the kinds requiring but little more than shade and moisture to maintain them in health growing vigorously, but kinds that tax the skill of the cultivator are in the most luxuriant condition, and show that their peculiarities are well understood and receive careful attention.

Greenhouse Ferns evidently receive a large share of attention, for there is not a kind worth growing that is not represented, and the space devoted to them is very large. Among the large number of kinds that arrest attention by reason of their beauty and distinctness are two comparatively new maidenhairs, which have been distributed by the firm. These are Adiantum Neo-Caledonice, a distinct and handsome species, remarkable for its attenuated pinnules, and the length of time the fronds retain their freshness when cut; and A. Mairiesi, a handsome form, intermediate in character between A. cuneatum and A. capillus veneris, between which it was supposed by the late Mr. T. Moore to be a cross. Gleichenias abound, and as so few are grown, except for exhibition, it may be mentioned as a point of some importance to cultivators, that they are equally as beautiful in a small state as in specimen form. G. dicarpa, G. flabellata, and G. rupestris glaucescens may be mentioned as comprising the best of the group, the last mentioned being perhaps the most beautiful. Lastrea fragrans, a small-growing and elegant species, is distinguished by the strong perfume, resembling that of the violet, it emits when the fronds are touched or have water poured over them. L. Richardsii multifida, one of the most beautiful of the greenhouse ferns with crested fronds, is of rapid growth, and admirably adapted for specimen culture. Osmunda Japonica corymbifera is another beautifully crested fern, specially adapted for the greenhouse, and valuable for its distinct character. Pteris serrulata cristata fastigiata will not fail to find favour with those who are partial to crested ferns, for it is free in growth, compact in habit, and the fronds are beautifully crested; it may indeed be described as one of the very best of the crested varieties of this well-known species. Note was also made of Asplenium ebenoides, a new and very pretty species; A. Seelosi, a rare and handsome form; several new Nothochlænas of exquisite beauty, not yet in commerce,

STOVE FERNS include numerous rare and beautiful species that are seldom seen in either trade or private collections, as well as all the kinds enjoying so high a degree of popularity as to be met with on all sides. One of the first to attract attention is the comparatively rare Adiantopsis radiata, a dwarf fern remarkable alike for its beauty and distinctness, not perhaps so easy to have in perfection

as many other kinds, but it does not impose a very heavy tax upon the skill of the cultivator. Chief among the host of Adiantums that have a place in the collection are A. lunulatum, a handsome species of free growth; A. Peruvianum, a graceful-growing species of the most distinct character; A. rhodophyllum, a compact-growing species with medium-sized fronds, the pinnules very large, and of a bright brown hue when young, changing with age to deep green; A. Seemanni, a distinct and beautiful species not much grown; A. Victoriæ, a charming species of dwarf growth, remarkable for the large size of the pinnæ; A. Collisi, a new species well deserving the attention of the cultivator. Asplenium formosum is a pleasing little species with elegant light green fronds. Davallia Fijiensis and its plumose variety are two of the most meritorious of the ferns requiring a stove temperature, for they are both robust in growth and unsurpassed for elegance of habit. Both make effective specimens. Davallia parvula will not be regarded with much favour by those who have a decided preference for strong-growing ferns, for when in the most robust state of health its fronds do not exceed an inch in height. It is, nevertheless, a sweet little thing that should not be overlooked. The diminutive fronds are finely divided, and of a bright emerald-green hue. Drymoglossum piloselloides is a capital companion to the species immediately preceding it, and a gem among ferns of small growth. Drynaria musæfolia and Goniophlebium glaucophyllum are two beautiful ferns, valuable both for their handsome appearance and distinct character. The first of the two has fronds between two and three feet in length, and with the veins so strongly marked as to give the fronds a very pleasing appearance. Lygodium dichotomum and L. volubile are two rare species, with large handsome fronds that will in due course take a leading position amongst the comparatively few ferns of scandent habit. Niphobolus heteractis, in the way of the well-known N. lingua, is a rare and

North-American Ferns are so largely grown as to constitute of themselves a feature of great interest. They are all well adapted for both greenhouse and outdoor culture, and for associating with the British species and their varieties, they are exceedingly useful because of the pleasing variety they afford. The following comprise some of the best in the section: Adiantum pedatum, one of the most lovely of the hardy ferns, forming under favourable conditions large masses of the most delicious verdure; Lastrea Goldiana, a bold-growing species, the fronds attaining a length ranging from two feet to thirty inches, and of a peculiar metallic hue; Osmunda cinnamomea, a distinct and handsome species; O. Claytoniana, a fine species with ample velvety green fronds; O. gracilis, in the way of the Royal Fern, but more slender in growth and graceful in appearance; Pellæa atropurpurea, a small-growing fern well worthy of a cool, shady nook in the fern garden; Polystichum acrostichoides grandiceps is the first of the known crested varieties of the North-American ferns, and so beautiful that it is impossible to repress a wish that we had more of them—it is rather dwarfer than the type, and the fronds are beautifully crested; P. munitum, of Californian origin, is one of the most handsome of the hardy exotics. It may be likened to the Holly Fern, but the fronds attain a length of four or five feet and a breadth of between four and five inches.

British Ferns occupy much space and evidently a large share of attention, and as the collection contains all the varieties of the several species that are worth growing, the houses and pits devoted to them are especially interesting. It was satisfactory to hear that, although the British ferns are not so well represented at the public exhibitions as they were from ten to twenty years ago, there is a brisk demand for them, especially for the more distinct varieties. To enumerate all the forms in the collection that deserve attention would occupy much space, and it must suffice to mention a few only of the most distinct. The varieties of the Lady Fern, Athyrium filix-feemina, of special excellence, include: acrocladon, apicale, curtum cristatum, Friselliæ, ramo-cristatum, gemmatum, grandiceps, Kalothrix; a delicate and exquisitely-beautiful variety, requiring more care than the majority of the forms; plumosum Axminster variety, plumosum elegans, rheticum deflexum, and Victoriæ, a variety, one of the most beautiful of the group. The Hard Fern, Blechnum spicant, has fifteen or sixteen varieties, and from these concinnum and trinervo-coronans have been selected as of special excellence. From the varieties of the Male Fern, Lastrea filix-mas, may be selected a large number that will not fail to give satisfaction to the cultivator; but those who can only afford space for a few should first give their attention to crispa cristata, crispa polydactyla, cristata Barnesi, grandiceps, Pinderi, and ramulosissima. The Mountain Fern, Lastrea montana, includes two extremely beautiful varieties, namely: coronans and ramo-coronans. The varieties of the common polypody, Polypodium vulgare, of exceptional merit, are Cambricum Prestoni, multifido-cristatum, and trichomanoides, the lastmentioned being of great beauty. Two varieties of Polystichum angulare claim special attention, namely: Pateyi and venustum; and from the numerous forms of the Hart's Tongue may be selected crispum and ramo-marginatum, both of which are distinct in cha



THE FERN NURSERY, SALE.

RE-PRINTED FROM

"THE GARDENER'S CHRONICLE."

PERHAPS the majority of the horticultural fraternity are more familiar with that modest and truthful notice in the advertising columns of the horticultural papers-"Ferns a speciality"-than they are with the most beautiful and varied collection of Ferns which Messrs. W. & J. Birkenhead have now brought together in their nurseries. I had long promised myself the delight of inspecting their collection, and the event came off at last, and although I went with large expectations they were more than fully met with the rich and varied multitudes of Ferndom there associated. A veritable Fern world! said one to oneself, all the while filled to overflowing with the joy which arises from the true appreciation of the delicate greenery, and infinitude of differentiations revealed in Ferns. Here they are by the thousand, everything elbowed out of the way, and for the matter of that, elbowing each other out of the way until every inch of available space is replete with interest and beauty. Many old friends are recognised, and many new ones observed; indeed one was immensely struck with the rarities and fresh species and varieties here assembled, each and all forming part and parcel of the life of their fortunate possessors. Come here, ye members of the gardening fraternity, and ye who admire Fern life, and confess your ignorance of the numerous gems Dame Nature has been pleased to pass into existence without the adjuncts of floral dress! Confess also, ye members of the fraternity, your lack of taste (forgive me—refined taste, I mean), because so few Ferns are grown, when so wide a field of beauty presents itself to select from! The idea amongst gardeners in this utilitarian age seems to be "Ferns for cutting." I would fain urge "grow Ferns for themselves." But I must proceed to mention a few of the best and most striking Ferns noticed during an examination extending over ten hours—a time far too short—but a very rigid selection must be made to keep oneself within reasonable limits; for to mention anything like what is here to be seen would be compiling a huge catalogue-a matter so admirably accomplished by Messrs. Birkenhead in their Fern catalogue, which is a work of art, and replete with valuable information, and one was happy to see it duly appreciated in the pages of the Gardener's Chronicle very recently. The utilitarian Ferns are here in enormous quantities, while the enthusiast will find much that is unsurpassed, I venture to suggest, even in our national collection at Kew, which, by the way, one is happy to learn has improved so much of late. Without further appearance of digression I will note the good things seen in the

Home Nursery.—Here are several low, mostly span-roofed, houses, filled to overflowing—and let us first walk through the propagating-house, and just fancy what meets you—countless multitudes of sporelings in all stages of infant happy growth!—what a host in thimble pots, other hosts in pans, others not pricked off, while multitudes are in their humble prothallic condition working out the reproduction of the Fern world! "Hidden and unseen," cryptogamic or "obscurely wedded" members they of the green world, as the sagacious Linnæus' name suggests. Here broad masses of Adiantum macrophyllum, cuneatum, gracillimum, fulvum, polyphyllum, Aspleniums, Gymnogrammas, Nephrodiums, Cheilanthus, Gleichenias, Pteris, the new and very striking Selaginella grandis, meet you on all sides, and beneath 'good batches of Gleichenias are being raised from spores. A most charming lot of G. flabellata was specially attractive, while many varieties also find a congenial home.

It seems well-nigh impossible for one to write systematically regarding this collection, for the forms which arise before one's vision are so numerous—each deserving mention. It will be best perhaps to pass the primary genera in review, and begin with the Maidenhair Ferns (Adiantums). A. Luddemannianum is especially attractive, with its agglomerated pinnæ and dark slender stipes—perhaps the most distinct Adiantum of hybrid origin; it does best in an intermediate temperature. A. dolabriforme, grown in baskets and pyramids of pots inserted one in the other, is extremely pretty, with its crescent-shaped pinnæ, and elongated fronds bearing at the extremities young plantlets, which under proper conditions will speedily form little colonies. A. caudatum is another species admirably adapted for baskets, and

producing plantlets. A. neo-caledoniæ, one of Messrs. Birkenhead's introductions, is very distinct, with deltoid tripinnate fronds. This was fully described, I think, in the Gardener's Chronicle by Mr. Moore. A very fine batch of A. Victoriæ, so dwarf and handsome, with broad cuneate pinnules, quite distinct, was especially noticeable, while the rarer Henslovianum was also in good order. A. Seemanni and peruvianum were well represented, as well as A. princeps, velutinum-a magnificent species-Wilsoni, amabile, rubellum, venustum, pelludicum, Williamsii-these three being stepping-stones one to the other-Lathomi, the rare reniforme, sulphureum, aneitense, speciosum, and a host of others, were all in excellent health, and mostly in strong force. Before leaving the Adiantums, I must not forget the charming little A. Capillus-veneris daphnites, of which there is a large lot of most beautiful plants; also the North American A. pedatum, of which there are two distinct forms, one of which may be regarded as normal, having flat pinnules, while in the other the pinnules are distinctly curled upwards, and if one may be godfather I would propose that it should be named crispum. Adiantopsis radiata is so much like a Maidenhair Fern that one may be pardoned for naming it with them; but really it belongs to a section of Cheilanthes. It is a charming Fern, and never have I seen it in better condition than at Sale, all the plants being in the best possible health, with their pretty radiating fronds. Being a native of tropical America, this plant is grown in stove heat.

The Spleenworts also muster in strong force both as regards the number of varieties and plants. There are several South African forms which are by no means satisfactorily identified, and it is quite likely some fresh species may turn up. A. affine and species or varieties clustering round it are especially worth attention. There is also an excellent variety of A. furcatum, named laceratum, which is very graceful in appearance, and is certainly one of the best cool-house Spleenworts in cultivation. A. dimorphum is a very scarce plant; the plant usually supplied as such is A. bifolium, which is here largely grown; and a most useful subject it is. A. laxum, resectum, Fernandezianum, and flabellifolium, are also temperate Ferns of the first merit; while too much praise cannot be levied upon A. rutæfolium, which we have never seen so abundant anywhere as at Sale; handsome plants in all sizes plainly reveal its decorative and most useful character. I quite think this will ultimately prove itself one of the most useful of all Ferns. Nice batches of the rock Spleenwort (A. fontanum) and the Pyrenean A. fissum are attractive; the latter is a very pretty species, while septentrionale, germanicum, and the queer little Seelosii are represented, with many other hardy or frame Ferns. Glancing at the stove Aspleniums we notice the graceful alatum, also the old and much too seldom seen A. Belangerii. Here, too, are A. abscissum, Baptistii, cicutarium, formosum, heterodon, longissimum-excellent for baskets or mural pockets-and the charming viviparum, the latter one of the best case Ferns in cultivation-all of which are most attractive kinds. The Bird's-nest Fern, A. nidus, and the charming little A. obtusilobum are also well grown; the latter is arranged in pot pyramids, and very pretty it looks.

Cheilanthes, Nothochlænas, and Pellæas constitute a most interesting series, and it is when amongst these gems that the blood of the enthusiast reaches fever heat. I mention these together because in my opinion, they should be grown together, and further, because I regard them as a beautiful group. Of the former genus there are many kinds. Fancy the exquisite beauty of the "Lace Fern" (C. elegans), as it droops over the shelf upon which it stands, each frond a picture of beauty; this species is especially well suited at Sale. Other species of Cheilanthes we admired and made note of are gracillima, tenuis, viscosa, alabamensis, californica, Clevelandii, the very rare Eatoni, and Fendleri, lanuginosa, and the extremely scarce Lindheimeri (a most charming species), muitifida, Sieberi, tomentosa, viscida, and Wrightii; these, with others, formed a most interesting series, which might well engage one's attention for a much more extended period. C. Eatoni is a very pretty species. Accommodated with them was a charming batch of the rare Gymnogramma hispida with its triangular woolly fronds; also a few plants of the rarer G. vestita from the Indian hills, and some of the Californian G. triangularis. The species of Nothochlæna are also numerous; especially noticeable was a fine batch of the little golden-fronded N. flavens, and the silvery N. nivea; also Eckloniana rufa, sinuata-a very lovely species, with the underside of the fronds densely clothed with silvery scales; while well worth mention are candida, dealbata, Grayii—a very rare and pretty species— Lemmonii, the charming S. European Marantæ, Newberryi, and the very scarce Parryi, which perhaps is scarcely found in any other collection. The Pellæas are also well grown, and numerous; indeed it would be difficult to know where to find such another lot. Take the more familiar European P. atropurpurea, or the Bird's-foot Pellæa (P. ornithopus) from California as examples; here they are in good numbers and quite happy, and the same may be said of the charming P. calomelanos, andromædifolia, densa, the rare and very charming Bridgesii, Breweri, geranifolia, intramarginalis, and the ever graceful ternifolia with its pretty arching fronds, the stipes of which pass through the glaucous

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pinnæ, while that very scarce North American P. Wrightiana is quite at home, producing excellent fronds; and we must not forget a handsome variety of the old P. rotundifolia named cordifolia. The pinnæ are oblong, cordate at the base, and well developed plants are most attractive.

A house is devoted to filmy Ferns, and here in the greatest luxuriance are the Todeas, excellent specimens of superba, Fraseri, and pellucida—the latter extremely beautiful. Several species of Trichomanes and Hymenophyllum are in excellent condition; the Killarney Fern is charming, especially the variety dissectum. The curious and pretty T. reniforme is also well grown, also the rare little T. Petersii of Carolina, and auriculatum, crispum, venosum, and Luschnathianum. Among the Hymenophyllums, demissum, flexuosum, pulcherrimum, Tunbridgense, &c., a frame of the latter planted out outside is in admirable condition, also frames of Todeas, which were out during the winter and subjected to frost, which, however, had no prejudicial effect upon them.

Davallias are largely grown, and one met with many good things. The useful D. fijiensis is largely grown, but as a decorative species this is superseded by its variety plumosa, which produces larger, broader, and more copiously divided fronds, and is in every way a more vigorous grower. One very distinctive characteristic Mr. J. Birkenhead pointed out was the peculiar disposition of the very scaly rhizomes to grow perpendicularly, or nearly so, and not prostrate, as in the normal form, hence good plants are attached to portions of stems. D. Kunzei and D. solida are also well grown on blocks of cork fastened with copper wire. The rare little D. parvula and D. heterophylla are also very happy, as well as D. hirsuta, D. cherophylla, and D. bullata. D. Mooreana is largely grown in all stages.

Space will not permit me to specialise any other genera, but some other varieties can scarcely be passed over without notice, and first there is the distinct and beautiful little Aspidium mohrioides a veritable little gem, a picture even of Fern greenery, with its deep green oblong lanceolate fronds with densely imbricated segments, coming to us from Patagonia and the Cordilleras of Chili, and which is a cool house or case Fern par excellence. While with the Shield Ferns I may mention an Indian form of A. falcatum, approaching, but quite distinct from, A. caryotideum; the pinnæ are broader across the base, the terminal one especially, and more deeply lobed; the apices of the lobes and lateral pinnæ are elongated almost caudate-it is a most effective kind, but not yet offered for sale. Lastrea Richardsii multifida is a very effective Fern and grown in quantity. Polypodium glaucophyllum is a very handsome species, the back surface of the fronds being very glaucous. A most striking Fern exists under the name of Pleopeltis fossa, producing very variable fronds, some simple, others sparingly lobed, while others are freely lobed, the plants presenting a very distinct appearance. P. pictus is very handsome, and the rare little Drymoglossum piloselloides is very happy grown on blocks. Gymnogramma Wettenalliana is very pretty, andabundantly grown; and we saw the handsome decomposita and the silvery peruviana in the best condition. Sadleria cyatheoides and pallida are both rare small Tree Ferns. Denstædtia davallioides Youngi is a very handsome large growing variety, admirably adapted for the embellishment of a large rockery. Doryopteris sagittifolia alcyonis is a very distinct and striking Fern, the fronds being curiously divided. A. Nephrodium, under the name of N. molle Sangwelli, is, we believe, quite new, even to literature-it certainly has some affinity to molle, but the fronds are broadly deltoid, and superficially the plant is quite distinct from molle; a large number of molle corymbiferum are grown, a very handsome Fern reproducing itself from spores. One is always reminded of a trite saying, which is accredited to Mr. Baker when first examining this form, "Dear me !--molle is gone mad!"

HARDY FERNS.—These are mainly grown in a branch nursery, but one's time was far too short, and nothing more than a cursory glance was enjoyed, but sufficient to know the collection is very rich, composed of thousands of the best varieties, including the North American Osmundas, in grand condition, Struthiopteris germanica, broad masses of the Oak Fern, in the happiest luxuriance, the Beech and Parsley are also strongly represented. Almost countless are the forms of the Lady Fern, Scolopendrium, Polystichum, Lastræa, and Polypodium. Several houses and frames are crowded with them, while broad quarters are planted out beneath small trees. Indeed this as well as the other nursery is a real Fern world, where countless differentiations are to be seen and admired. But I must leave and draw this imperfect sketch of one of the richest collections of Ferns to a close, by strongly urging all Fern lovers to avail themselves of the treat afforded at Sale; it feeds the most finely strung enthusiasm, a treat greatly enhanced by the hospitality of the Messrs. Birkenhead. I may mention a curious instance of Ivy growth to which my attention was drawn by Mr. William Birkenhead; a strong shoot found its way from the outside, through the wall, into the sitting-room, where it was encouraged, and has made excellent growth, being trained inside the window. If memory serves well I think it has been inside two years. By what method of growth was the shoot thus forced through the wall? Why did it leave the air and sunshine?—Pteris.

RE-PRINTED FROM

HORTICULTURE." JOURNAL of

NOTES AT MANCHESTER.

THE Whitsuntide Show at Manchester has gained a great fame throughout this country, and in consequence many horticulturists pay an annual visit to the great Cotton City, with the object either of contributing some of their productions or to inspect and criticise those of other members of the

MESSES. W. & J. BIEKENHEAD'S FERMS.

The charming group of Ferns from this firm was one of the features of the Exhibition, a most tasteful combination of elegant foliage and varied shades of green. Examples of this style of grouping plants have for several years been prominent at Brighton and Eastbourne Shows, where classes are specially provided for them; but the idea does not appear to have extended beyond these Societies. Messrs. Birkenhead therefore set a bold example in entering the class for a general group of plants with one composed exclusively of Ferns. It was, however, so greatly admired that it is to be

hoped that some special encouragement will be given to this form of grouping.

A large number of species and varieties were represented in the group, but to gain an accurate idea of Messrs. Birkenhead's stock a visit must be paid to their Fern Nursery at Sale. There the fern-lover will find ample to interest him, for some seventeen or eighteen houses are devoted to these graceful plants, forming probably the largest collection of Ferns in cultivation. All the best-known and generally useful species of both hardy and exotic Ferns are grown in thousands, and a glance at the house of sporelings ready for potting occasions a feeling of wonderment as to where they will all find homes. There certainly appears to be enough to stock the entire country, yet Messrs. Birkenhead occasionally find it difficult to meet the demand for some particular species. At this time of the year, when the majority of the plants are making fresh growth, their appearance is especially beautiful, their bright green elegant fronds rendering the houses very attractive. In every department the Ferns are distinguished by a robust healthiness that is most refreshing, and there is an absence of that drawn flaccid flimsiness which too often characterises Ferns in private gardens. One cause of this greater sturdiness is the practice of exposing the plants freely to light without going to the extent of permitting the young tender fronds to be injured by a bright What might be termed the "dark" system of culture has too long been followed with Ferns, and the result is that in many establishments plants may be seen dragging out a miserable existence, unsatisfactory alike to gardener and employer. There is, however, a gradual awakening to the fact that Ferns, like other plants, do not under cultivation require to be perpetually in a state of semi-darkness, and with better houses, stages, or shelves nearer the glass, and more liberal ventilation in suitable weather, the plants are more likely to develop their true beauty and proportions. Another matter which has been fully proved in the Sale Fern nursery is that peat is by no means so necessary for Ferns as has been so long supposed, better and more substantial growth being obtained from Ferns in a compost of good loam and leaf soil than from the best peat obtainable. Indeed, there are some Ferns, and amongst them may be mentioned the Scolopendriums, which thrive best in a rather heavy loam. The supply of moisture is of great importance, and the soil in which a Fern is growing should never be allowed to become dry. At the same time Messrs. Birkenhead and many other growers find that syringing Fern fronds is to a large extent better avoided; in many cases it is of doubtful benefit, and in some it is positively injurious. Preserve the requisite amount of moisture in the air by damping paths and stages, but beyond an occasional sprinkling to keep the fronds fresh and clean do not syringe them. Such in brief is their practice, and the proof of its suitableness is apparent in the condition of the plants.

To enumerate only the best of the species and varieties composing the Sale collection would fill a volume; all the leading genera are strongly represented, and there are some varieties which it would be difficult to find in any garden in England. Those little gems the Cheilanthes, Nothochlænas, and Pellæas are especially numerous, and succeed most satisfactorily on a shelf close to the glass in a lean-to house. These charming little plants are reputedly difficult to grow, but there they appear quite at home, producing their graceful prettily powdered fronds most freely. They are seldom seen in gardens, chiefly no doubt because there is an impression that they will not succeed; but those who have seen the Sale collection will be inclined to alter any unfavourable opinion they might have formed. There the plants grow freely, unfurling their charmingly graceful fronds, and soon forming on the shelf devoted to them quite a thicket of growth. An especial favourite is the so-called Lace Fern, Cheilanthes elegans, with its finely divided fronds, which needs a rather warmer position than most of the other species, such as C. Clevelandi, C. Fendleri, C. frigida, C. myriophylla, and C. vestita, which succeed best in an ordinary cool Fern house. The Nothochlænas are similarly divisible into two classes, the warmer section including N. chrysophylla, N. nivea, N. rufa, and N. sinuata; while in the cooler group we have N. canariensis, N. candida, and N. lanuginosa, all pretty species, but little known. To enumerate only the best of the species and varieties composing the Sale collection would fill a

little known.

In every house there are numberless attractions—Adiantums and Aspleniums in abundance, In every nouse there are numberless attractions—Adiantums and Aspientums in abundance, with scores of varieties over which a Fern-lover would go into ecstacies. In addition to the usual tropical Ferns there is a good collection of the best "Filmies," which, like all the others, are in a most satisfactory condition. The hardy Ferns are grown in hundreds of thousands, and more vigorous specimens I have never seen in cultivation. The beautiful little Beech and Oak Ferns, everyone's favourites, are very strongly represented; while the most distinct and handsome of the varieties of British Ferns are grown in abundance. Throughout, the collection is most interesting, and no horticulturist should visit Manchester without spending an hour or two at Sale.—Lewis Castle.

Temple Gardens, Jondon, R.H.S. Show.

WHAT THE HORTICULTURAL AND OTHER PAPERS SAY.

"THE GARDENER'S CHRONICLE," May 31st, says-

"Messrs. W. & J. BIRKENHEAD exhibited in that excellent manner peculiar to the firm whenever we are favoured with their presence in London. They staged some 500 specimens, embracing a fair representation of each class and also of Ferns generally. The group was arranged in sections as much as possible—the Adiantums together, the Aspleniums, Gymnogrammas, and other large genera placed conveniently for comparison; the exotic species together and the hardy kinds at the end. Among the hardy we noted the elegant Athyrium f.f. plumosum elegans, and Λ . f.f. Frizelliæ cristatum nanum, Lastrea f.m. fimbriata cristata, elegantly fringed and crested; the Scolopendriums cristulatum and grandiceps were remarkable, and the well known but pretty Asplenium septentrionale and Λ . Germanicum were among the dwarfest. Among the exotics were a group of all the species of Lygodium, and the allied Lygodictyon Fosterii; a fine lot of Cheilanthes and Nothocleenas, some of the rare Onychium auratum, Lomaria fluviatilis, Davallia parvula, and a group of Filmy Ferns, including the new Todea grandipinnula."

"THE GARDENER'S MAGAZINE," May 31st, says-

"Messrs. Birkenhead, of Sale, near Manchester, presented a wondrous collection of Ferns."

"Messrs. Birkenhead contributed a thoroughly representative collection, comprising good examples of all the finest of the British and exotic species and varieties."

"AMATEUR GARDENING" says-

"The Ferns shown by Messrs. W. & J. BIRKENHEAD, to the extent of five hundred kinds, were, it is needless to say, of great interest. The collection embraced almost every type of Ferns in commerce."

"THE GARDEN" says-

"Gymnogrammas were exhibited at the Temple Show in great beauty, by Messrs. Birkenhead. The best amongst the varieties is the form G. schizophylla gloriosa. There were also good examples of the Silver Fern (G. Peruviana argyrophylla). This is a very beautiful plant, having a thick coat of silvery powder on both sides. A plant of Platycerium Willinckii was shown in very good form by Messrs. Birkenhead."

"THE TIMES," May 30th, says-

"In one of the tents were the Filmy Ferns, rarely or never seen before in such beauty and variety at a Flower Show. With little pearls of dew gemming every point of the cool green fronds, they were most agreeable to look upon, and it was difficult to believe that, even with the protection of glass shades, these natives of caves and of tropical forests could be exposed without danger in a canvas tent. The Killarney Fern and that which is found among the rocks of Tunbridge Wells, with a doubtful variant called Wilson's, are believed to be the sole indigenous examples of this class, and they were all represented yesterday either in Mr. Backhouse's or Mr. Birkenhead's collection. Mr. Birkenhead, of Sale, whose Ferns were not selected exclusively from the filmies, showed a new Todea grandipinnula, a feathery hybrid, and the garden variety Davallia tenuifolia Veitchiana, very light and wavy. There was also a Gymnogramma schizophylla originally from Jamaica, but in its improved form called gloriosa. A first-class certificate was awarded for Lastrea f.m. cristata fimbriata, crested and fringed with delicate embroidery of vegetable green."

"THE MANCHESTER GUARDIAN," May 29th, says-

"On the whole the show was a brilliant one, but it is impossible to give here more than a few of the more prominent exhibits. Messrs. W. & J. BIRKENHEAD, of Sale, Manchester, sent a beautiful collection of rare Ferns. Their Davallias were particularly admired. Most deservedly they obtained the Silver Cup for the best collection of Ferns."

"THE NEW YORK HERALD," May 29th, says-

"In Ferns there were numerous exhibits, the most extensive array coming from Messrs. W. & J. BIRKENHEAD (Sale, near Manchester), and containing 500 varieties, a Silver Cup being the award made, in addition to a first-class certificate for a new variety (Lastrea f.m. cristata fimbriata)."

COLOURED PLATES OF FERNS.

WE have secured a large number of beautiful Coloured Plates of Ferns, originally produced for

LOWE'S "EXOTIC and BRITISH FERNS," Published at £9 9s.

These Plates are executed in an excellent manner, the illustrations being so life-like that anyone might easily think they were actual Fern fronds laid on the paper.

Fern lovers have thus an opportunity of securing specimens of any or all of these exceedingly valuable and interesting Plates so long as unsold. When the stock is exhausted there will be no further possibility of obtaining such faithful representations of the originals, as to reproduce them would cost a very large sum. We therefore advise all lovers of these plants to procure such plates as they wish for without delay, as our stock of some kinds is very small. A list of those in supply will be forwarded on application.

The Plates are not only interesting as representing particular Ferns, but useful for reference, and may be kept either loose or arranged in book form in albums. Many species, not now procurable as living plants, are represented, and the plates of such are specially valuable.

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From "THE GARDEN," Feb. 14th, 1891.

A BEAUTIFUL FERNERY.

"The illustration appearing herewith represents a view in a fernery belonging to Mr. J. Halliwell, Laburnum House, Bury, Lancashire. On passing through the doorway of this fernery a scene presents itself which at once in imagination transfers the beholder to a lovely tropical district, such as is sometimes described by travellers who have seen Ferns revelling in their native homes.



View in the Fernery of Mr. HALLIWELL, Laburnum House, Bury, Lancashire.

Engraved for "THE GARDEN" from a photograph sent by Messrs. W. and J. BIRKENHEAD, Sale.

"Entering the fernery, one looks upon a mass of sandstone rising tier above tier. From interstices and also from capacious pockets hang in graceful profusion lovely fronds of innumerable species and varieties of varied form and colour. The pathway winds in and out, gradually sinking lower and lower, while the rockwork rising on each side gives the appearance of the path having been hewn out of solid stone; here a mass projecting, there receding and forming large receptacles in which the Ferns grow in wonderful health and vigour. Passing along this rocky footpath, at the extreme end, a very attractive feature is a stream of water which, after running along a rocky channel for a short distance, comes tumbling and dashing over the rocks obstructing its course. Three parts of the way down, a miniature lake is formed, from which the water again escapes and falls into a deeper and larger receptacle, which, judging by appearances, the water might have made by its incessant fall and flow during past ages; going a little further the stream disappears, like some underground river, to appear in a different place and be put to further use. Turning and looking towards the now invisible entrance, completely blocked from view by a large projecting

Fern-clad rock, the prospect is very beautiful. One very striking thing is the perfectly natural appearance presented by the luxuriant growth of the various Ferns, Selaginellas, and other plants; Adiantums, large and small-leaved, growing in masses in the large pockets, and peeping out of crannies and crevices; Davallias creeping here and there over and up the rocks, showing their peculiar brown and white feet; Aspleniums in abundance, some large and spreading, bearing numbers of young plants, others finely divided and cut; the noble Tree-fern (Alsophila excelsa), Microlepia platyphylla, a rare species, but a splendid object; Gold and Silver Ferns; the lovely Gymnogramma schizophylla gloriosa, with its gracefully-curved, finely-cut fronds, a picture of beauty; the Stag's-horn Ferns, the lace-like Cheilanthes elegans, with others of this genus; and Pterises without number. Every step that is taken brings to view species and varieties rare and beautiful, and seldom seen in private collections.

"One exceedingly beautiful Fern will be noticed in the illustration, hanging gracefully over the rock, viz., Adiantum concinnum. This is indeed a lovely plant, such as is seldom seen. There is an absence here of the arches which so often appear in various fantastic designs in ferneries, and which very frequently spoil the effect, producing an unnatural appearance. In this fernery, while there is not the slightest trace of formality, the rockwork is so arranged that the Ferns and other plants growing at the bottom on the level of the footpath get an abundance of light. When the light is obscured by arches or by overhanging rocks injudiciously placed, the plants below them, which ought to be as healthy and in as good condition, or better than anywhere else because more in view, are weak and drawn, and detract from instead of add to the appearance of the fernery. The requirements of plants in the matter of light should always be provided for, and in Mr. Halliwell's Fern paradise they show a healthy vigorous condition, as a result of this and other natural surroundings and provisions.

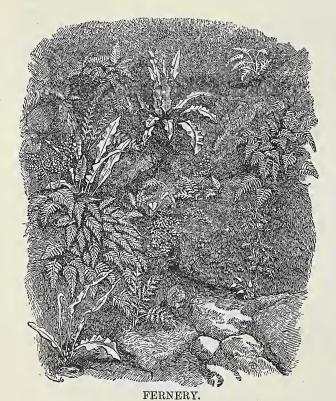
"In addition to the Ferns there are many Selaginellas planted, some upright in growth, others forming tiny carpets of green, golden, or silver verdure. S. cæsia arborea, with its rambling stems and branches and beautiful metallic blue foliage, might be in some tropical forest, it is so thoroughly at home. Ficus repens and F. minima creep up the stones, hang over the rocks, and spread in all directions. Tradescantias and a few other suitable plants give additional variety in form and colour, and altogether serve to make up a scene of beauty.

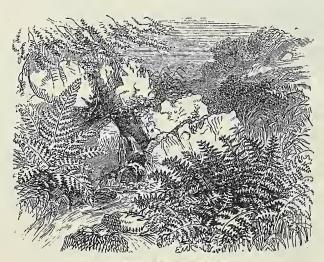
"This fernery was constructed and planted by Messrs. W. and J. Birkenhead, of the Fern Nursery, Sale."

N.B.—The Fernery to which reference is here made, and Illustration of which is given, is one out of many which may be seen by the kindness of the gentlemen for whom we have constructed them. We shall have pleasure in giving addresses at which they may be seen, on application.



ROCKWORK.





A NATURAL FERNERY.

TAVING given special attention to the requirements Ferns and other Plants in Rockwork Ferneries, and having had much experience in the construction of Rockwork, both in and out of doors, we are well qualified, and always make it our special aim to build, arrange, and plant Ferneries so as to be of an ornamental character, and as near an approach to nature as possible. We shall be pleased to undertake the construction of outdoor or indoor Ferneries or Rockwork, on large or small scale, and supply the various materials required for the purpose.





A FERNERY.

We are indebted to the Publishers of Garden Work for the block by which this illustration is produced.

